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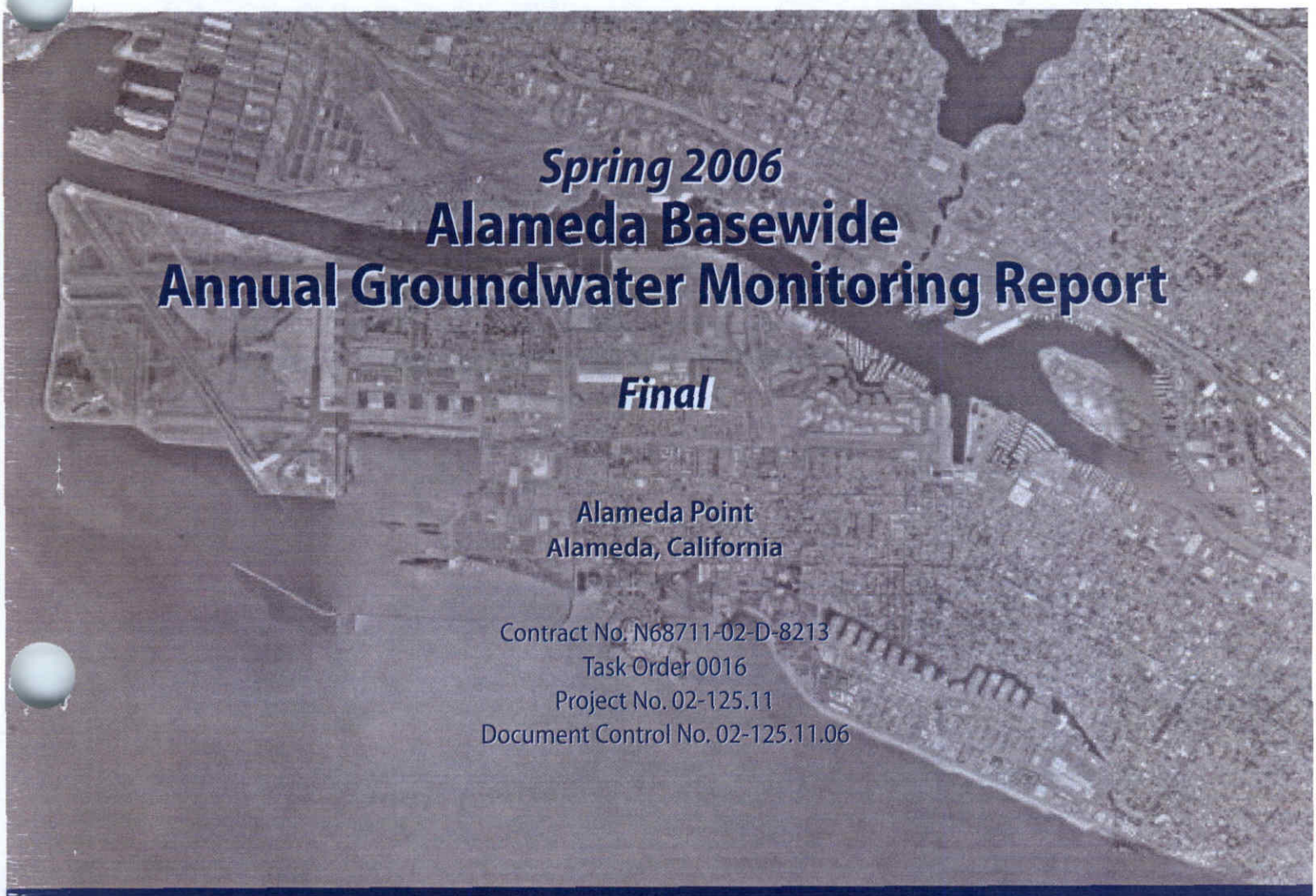

Spring 2006
Alameda Basewide Annual Groundwater Monitoring Report

Final

Alameda Point
Alameda, California

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Volume 1
February 2007

SPRING 2006 ALAMEDA BASEWIDE ANNUAL GROUNDWATER MONITORING REPORT

ALAMEDA POINT
ALAMEDA, CALIFORNIA

FINAL

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February 2007

ITSI Innovative Technical Solutions, Inc.

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ALAMEDA POINT
ALAMEDA, CALIFORNIA

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Contract Number N68711-02-D-8213
Contract Task Order 0016

Document Control Number 02-125.11.05

February 2007

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		Project #	02125.1100
		Task No:	002

☐ For Review & Comment	☐ Approved As Submitted	☐ Resubmit _____ Copies for Approval
☒ For Approval	☐ Approved As Noted	☐ Return _____ Corrected Prints
☐ For Information	☐ Return for Corrections	☐ Other:

No.	Copies	Date	Title
1	1	1/26/07	Response to Comments by DTSC (12/27/06) and RWQCB (1/8/07)
1	1	1/26/07	Replacement covers, spines and backs to update the document as "Draft Final Spring 2006 Alameda Basewide Annual Groundwater Monitoring Report, Alameda Point, Alameda, CA."
1	1	1/26/07	Replacement insert for Section 1 for the "Draft Final, Spring 2006 Alameda Basewide Annual Groundwater Monitoring Report, Alameda Point, Alameda, CA."
1	1	1/26/07	Replacement "Groundwater Monitoring Summary Tables" inserts into the existing draft document.

cc: Project Files

Please call me at (510) 719-6858 if you have any questions

Arvind Acharya

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Letter of Transmittal

To:	Frances Fadullon, RPM	**From:**	Arvind Acharya
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No.	Copies	Date	Title
1	2	2/26/07	Replacement CDs – Volume 1 and 2, Spring 2006 Alameda Basewide Annual Groundwater Monitoring Report, Alameda Point, Alameda, CA; Final, February 2007 -CD includes new Section 14A for IR Site 26 and new Table 14-2A for groundwater levels collected in Spring 2006 used for plotting the basewide groundwater elevation map. No groundwater samples were collected at IR 26 as it is not in the basewide program.

cc: Project Files

Please call me at (510) 719-6858 if you have any questions

Arvind Acharya

Response to Comments

Spring 2006, Alameda Basewide Annual Groundwater Monitoring Report, Draft, Alameda Point, Alameda, California

Response to DTSC comments received on December 27, 2006

1. **Objective of the Monitoring Program**. The Introduction (Section 1.0) states that the Groundwater Monitoring Program (GMP) is designed to evaluate the adequacy of the existing basewide monitoring well network. However, the GMR does not provide a thorough evaluation of the adequacy of the monitoring well network because the current monitoring well network at some sites is not adequate to monitor concentration trends in key locations (within source areas and on plume perimeters. The Navy should revise the objective of the GMP to reflect the actual purposes of the GMP.

Response:
Section 1, paragraph 3 of the report is clarified as follows:
"This report presents the results of the past year of groundwater and soil gas sampling under the basewide monitoring program. The analytical data generated from this monitoring program provides additional information on the presence and distribution of contaminants in the groundwater and vadose zone and is intended to complement other information generated by ongoing site investigations and remedial actions. Sampling for the Groundwater Monitoring Program was conducted in accordance with the sampling approach and design presented in the Final Work Plan (Shaw Environmental, Inc. [Shaw], 2004) and the Technical Memorandum (ITSI, 2005), and is more fully described in Section 2.4. These monitoring activities are being conducted within the National Priority-listed portion of Alameda Point in Alameda, California, except for those at Installation Restoration (IR) Site 25, where the monitoring activity extends on to the former Fleet and Industrial Supply Center Oakland (FISCO) Annex property. The Annex is not within the National Priority List portion of Alameda Point. Figure 1-2 presents the Installation Restoration sites and monitoring well locations at Alameda Point."

Replacement inserts for page 1, Section 1 are included with this submittal.

2. **Interpreted Plumes on Figures**. The interpretation of the extent of groundwater contamination shown on figures throughout the Annual GMR is based solely on current sampling data and does not reflect the full extent of contamination at several sites. At some sites, the monitoring well data provide incomplete information on the extent of plumes because of the limited monitoring well network. For example, at IR Site 3 Group (Figure 5-6), three separate chlorinated hydrocarbon plumes are illustrated. However, based on extensive historical sampling data, we know that this is a single plume that extends from the dense nonaqueous phase liquid source area at Building 360 to the Seaplane Lagoon. The interpretation shown on Figure 5-6 and the text describing it (Sections 5.4.2 and 5.4.5) are misleading. Please revise the plume maps and text based on known

information about contaminant distribution or add a footnote to the figures and discuss in the text why these interpretations are not consistent with historical data and the current understanding of contaminant distribution.

Response:

An evaluation of the groundwater program, including an assessment of inclusion of existing plume boundaries at all IR sites will also be conducted following the Spring 2007 Annual Basewide Groundwater Monitoring Round.

The plume maps generated for the Fall 2006 CD submittal will include the footnote "The interpretation of the extent of groundwater contamination shown on figures throughout the Annual GMR is based solely on current sampling data and does not reflect the full extent of the information collected under CERCLA investigations."

3. **1,4-Dioxane**. Groundwater samples collected from selected wells (at and downgradient of known volatile organic compounds sources) at IR Site 3 Group, IR Site 5 Group, and IR Site 9 Group should be analyzed for 1,4-dioxane.

Response:
A new standard for 1,4-dioxane has recently been promulgated. An evaluation of whether samples for IR Site 3 Group, IR Site 5 Group, and IR Site 9 Group should be analyzed for 1,4 dioxane will be performed following the Annual Spring 2007 event.

4. **Consistency of Figures and Tables**. The wells shown on the separate IR Site 5 Group figures are inconsistent. Some wells are included on Figures 6-2 and 6-3 that are not shown on Figure 6-1. Please ensure that all current and historical wells sampled as part of the GMP are shown on Figure 6-1. Also, please ensure that show all wells listed in "Groundwater Monitoring Summary" tables are also included on the respective "Site and Well Location Map" figure as well as other applicable figures.

Response:
Figure 6-1 will be changed and current and historic wells will be updated in Figure 6-1 (and all "Site and Well Location Map" figures) for the Fall 2006 CD submittal. Updated "Groundwater Monitoring Summary" tables are included in this RTC submittal package

5. **Abandoned Wells**. Some GMP wells have been abandoned as a result of removal actions at some sites. For each site with abandoned wells, please discuss those wells that have been removed from the sampling program due to abandonment along with the reason that theses wells were abandoned. Abandoned wells should be indicated on figures using a distinguishing color and/or symbol.

Response:
The abandoned wells at each site will be listed and shown on a figure upon coordination with the ongoing CERCLA activities following the Annual Spring 2007 groundwater monitoring event.

6. **IR Site 32**. Please add newly constructed wells at IR Site 32 to the GMP. These wells should be sampled quarterly for a period of one year. After one year, the sampling frequency may be re-evaluated.

Response:
The newly constructed wells at IR Site 32 will be evaluated for possible inclusion in 2007-2008 monitoring events.

Responses to RWQCB Comments received on January 8, 2007

General - With all the data within these 2 volumes of the report presented in pdf format only, data analysis or comparison of sites is extremely time consuming. If these tables were also provided in Excel format on the report's CD-ROM, it would make all of these data more accessible and greatly facilitate the review of monitoring results.

Response:
The cross-tabulated tables in the report represent a compilation of multiple sources of data integrated via a Structured Query Language (SQL) database query and is not assembled in an Excel format. However, excel data files for the Spring 2006 event are included in the CD (Appendix B).

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ACRONYMS AND ABBREVIATIONS

A/E	Architect/Engineering
AFWBZ	Alameda Formation Water-Bearing Zone
ASTM	American Society for Testing and Materials
AVGAS	aviation gasoline
AWQC	Ambient Water Quality Criteria
BCT	Base Closure Team
bgs	below ground surface
BHC	benzene hexachloride
BRAC	Base Realignment and Closure
BSU	Bay Sediment Unit
BTEX	benzene, toluene, ethylbenzene, and xylenes
CANs	Container Storage Area
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COPC	contaminants of potential concern
CTO	Contract Task Order
1,1,1-TCA	1,1,1-trichloroethane
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,2-DCBZ	1,2-dichlorobenzene
1,4-DCBZ	1,4-dichlorobenzene
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
EBS	Environmental Baseline Survey
EBMUD	East Bay Municipal Utility District
E&E	Energy & Environment, Incorporated
EPA	United States Environmental Protection Agency
FISCO	Fleet and Industrial Supply Center Oakland
FWBZ	First Water-Bearing Zone
HSZ	hydrostratigraphic zones
ID/IQ	Indefinite Delivery/Indefinite Quantity
IDW	investigation derived waste
IR	Installation Restoration
IT	IT Corporation
ITSI	Innovative Technical Solutions, Inc.
IWTP	Industrial Wastewater Treatment Plant
LEL	lower explosive limit
MCL	maximum contaminant levels
MTBE	methyl tertiary-butyl ether

ACRONYMS AND ABBREVIATIONS (Continued)

µg/L	micrograms per liter
mg/L	milligrams per liter
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
NAS	Naval Air Station
Navy	U.S. Department of the Navy
NOAA	National Oceanic and Atmospheric Administration
ORP	oxidation-reduction potential
OU	operable unit
PAH	polycyclic aromatic hydrocarbons
pCi/L	picocuries per liter
PCB	polychlorinated biphenyls
PCE	tetrachloroethene
PMO	Program Management Office
ppbv	parts per billion by volume
QC	quality control
RCRA	Resource Conservation and Recovery Act
RPM	Remedial Project Manager
RWQCB	Regional Water Quality Control Board – SF Bay
Shaw	Shaw Environmental Inc.
SIM	Selective Ion Monitoring
SVOC	semi-volatile organic compounds
SWBZ	Second Water-Bearing Zone
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
TDS	total dissolved solids
TPH	total petroleum hydrocarbon
TtEMI	Tetra Tech Environmental Management, Inc.
UST	underground storage tanks
VOC	volatile organic compounds
YBM	Yerba Buena Mud

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report has been prepared by Innovative Technical Solutions, Inc. (ITSI) on behalf of the U.S. Department of the Navy (Navy), Base Realignment and Closure (BRAC) Program Management Office (PMO) West, San Diego, California under the Architect/Engineering (A/E) Indefinite Delivery/Indefinite Quantity (ID/IQ) Contract Number N68711-02-D-8213, Contract Task Order (CTO) 0016. This Report presents the results of the Basewide Groundwater Monitoring Program activities at the former Naval Air Station (NAS) Alameda, now referred to as Alameda Point. Alameda Point is located on the western end of the Island of Alameda, on the eastern side of the San Francisco Bay, and is separated from the City of Oakland by Oakland Inner Harbor, which opens to San Francisco Bay (Figure 1-1).

This report presents the results of the past year of groundwater and soil gas sampling under the basewide monitoring program. The analytical data generated from this monitoring program provides additional information on the presence and distribution of contaminants in the groundwater and vadose zone and is intended to complement other information generated by ongoing site investigations and remedial actions. Sampling for the Groundwater Monitoring Program was conducted in accordance with the sampling approach and design presented in the Final Work Plan (Shaw Environmental, Inc. [Shaw], 2004) and the Technical Memorandum (ITSI, 2005), and is more fully described in Section 2.4. These monitoring activities are being conducted within the National Priority-listed portion of Alameda Point in Alameda, California, except for those at Installation Restoration (IR) Site 25, where the monitoring activity extends on to the former Fleet and Industrial Supply Center Oakland (FISCO) Annex property. The Annex is not within the National Priority List portion of Alameda Point. Figure 1-2 presents the Installation Restoration sites and monitoring well locations at Alameda Point.

1.1 HYDROGEOLOGY

Five distinct hydrostratigraphic zones (HSZs) have been recognized at Alameda Point as follows:

- **First Water-Bearing Zone (FWBZ):** shallow unconfined groundwater in Artificial Fill, the coarse-grained Bay Sediment unit (BSU) and locally, the upper Merritt Sand. Divided into two hydrologically distinct subintervals in some areas: FWBZ-upper (Artificial Fill) and FWBZ-lower (BSU sands and upper Merritt Sand). First

encountered groundwater in the FWBZ is found at depths of 2 to 8 feet below ground surface (bgs). Potentiometric surface elevations for the FWBZ range from 2 to more than 11 feet above mean sea level (msl). The FWBZ is tidally influenced for approximately 250 to 300 feet inland on the northern and southern sides of the Island of Alameda, and approximately 1,000 to 1,500 feet inland on the west side.

- **Bay Sediment Unit (BSU) Semi-Confining Layer:** in areas where silts and clays of the BSU are of sufficient thickness, the unit acts as a confining to semi-confining layer between the FWBZ and the underlying Second Water-Bearing Zone (SWBZ). The BSU is not an effective aquitard in the southeastern portion of Alameda Point, where it is thin or not present at all.
- **Second Water-Bearing Zone (SWBZ):** confined to semi-confined groundwater in Merritt Sand (where present) and the upper unit of the San Antonio Formation. Divided into two hydrogeologic subintervals: SWBZ-upper (Merritt Sand) and SWBZ-lower (Upper San Antonio Formation). Where the BSU is thin or absent, hydrologic isolation between the FWBZ and SWBZ has not been clearly established. Where the BSU is significantly thickened (representing deposition within paleochannels in the central portion of Alameda Point) the FWBZ-SWBZ zones are not clearly defined. The SWBZ is strongly tidally influenced in the vicinity of Seaplane Lagoon in the central, southwest, and southeast portions of Alameda Point. Available slug test-derived hydraulic conductivity estimates for the SWBZ are 1.8 to 5.3 feet per day.
- **Yerba Buena Mud (YBM) Aquitard:** a regionally continuous layer that forms a well-known regional aquitard. At Alameda Point, the unit is 35 feet thick and is encountered at depths between 80 to 120 feet bgs. The YBM is an effective confining layer between the relatively saline groundwater of the SWBZ and the underlying freshwater Alameda Formation Water-Bearing Zone.
- **Alameda Formation Water-Bearing Zone (AFWBZ):** deep groundwater underlying the YBM Aquitard in Alameda Formation sediments. Little is known about the hydraulic properties of the deep aquifer system at Alameda Point.

Groundwater elevations and flow directions vary in the FWBZ at Alameda Point. The western portion of Alameda Point exhibits high groundwater elevations with apparent groundwater mounding in the central runway area. Groundwater flow in the central portion of Alameda Point appears to be toward the northwest, away from Seaplane Lagoon. Groundwater in the eastern part of central Alameda Point appears to be strongly influenced by former channels that were filled with dredged materials. Groundwater flow in southeastern Alameda Point is generally toward Seaplane Lagoon, but exhibits complex patterns near the historical island surface. In industrial areas, groundwater flow may be affected by underground utility corridors.

Local horizontal hydraulic gradients in the FWBZ range from 0.001 to 0.003 feet per foot. Vertical gradients have been observed between the FWBZ-upper and FWBZ-lower subintervals. The direction of vertical groundwater flow (up or down) in the FWBZ is primarily influenced by seasonal factors, e.g. precipitation and evapotranspiration (Shaw, 2004).

1.2 BENEFICIAL USE DETERMINATION

This summary of the beneficial use determination conducted for Alameda Point is based on the information provided in the Final Work Plan for the Basewide Groundwater Monitoring (Shaw, 2004); additional details are provided in that document and documents referenced therein. The beneficial use study (*Determination of the Beneficial Uses of Groundwater at Alameda Point, Alameda, California*) (Tetra Tech Environmental Management, Inc. [TtEMI], 2000) classified groundwater across the site based on the Guidelines of Groundwater Classification under the Environmental Protection Agency (EPA) Groundwater Protection Strategy (EPA, 1988). Criteria used to classify groundwater were total dissolved solids (TDS) and minimum well yield. The classifications are:

- Class I - an irreplaceable source of drinking water or ecologically vital
- Class II - current or potential source of drinking water and has other beneficial use
- Class III - not a potential source of drinking water and has limited beneficial use

In the western portion of Alameda Point, the FWBZ beneath Sites 1, 14, and 15 is Class II groundwater based on federal TDS and yield criteria, while groundwater beneath Site 2 is Class III. The SWBZ within the western area is designated Class III groundwater, because TDS concentrations exceed 10,000 milligrams per liter (mg/L). The Class II groundwater in the western portion should not be considered a potential drinking water source for cleanup decisions in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) due to the following factors:

- Safe yield and maximum pumping rate are inadequate to support common uses of water as well as multiple domestic users.
- Existing saltwater intrusion at the base of the FWBZ would be accelerated by groundwater extraction.
- No supply wells currently exist within or downgradient of contaminated groundwater.

- No supply wells are likely to be installed within the golf course or landfill areas.
- State and county limitations restrict well construction due to a thin, vulnerable aquifer.

In consideration of these factors and planned property reuse, the Alameda Point Base Closure Team (BCT) concluded that the groundwater beneath Sites 1, 14, and 15 is unlikely to be used as a potential drinking water source.

The FWBZ in the central portion of Alameda Point beneath Sites 5, 6, 7, 8, 10, and 12 is Class II groundwater based on federal TDS and yield criteria. The FWBZ and the SWBZ groundwater at IR Site 25 are Class III because TDS concentrations exceed 10,000 mg/L. The Class II groundwater in the central portion should not be considered a potential drinking water source as a result of the following factors:

- Safe yield and maximum pumping rate are inadequate to support common uses of water as well as multiple domestic users.
- Existing saltwater intrusion at the base of the FWBZ would be accelerated by groundwater extraction.
- No supply wells currently exist within, or downgradient of, contaminated groundwater.
- State and county limitations restrict well construction due to a thin, vulnerable aquifer.

In consideration of the other mitigating factors and property reuse, the BCT has concluded that groundwater beneath Sites 5, 6, 7, 8, 10, and 12 is unlikely to be used as a drinking water source. However, contaminant mass reduction is required in the central portion of Alameda Point to facilitate long-term contaminant attenuation and allow for other beneficial uses of groundwater.

Groundwater in the southeastern portion of Alameda Point beneath Sites 3, 4, 9, 11, 13, 16, 19, 21, 22, and 23 is Class II groundwater, based on federal TDS and yield criteria. The FWBZ in the southeastern region of Alameda Point is connected to a Class II water-bearing zone (Merritt Sand) that is a potential drinking water source for off-base wells. Sixty upgradient wells are screened in the Merritt Sand immediately east (up to 1 mile) of Alameda Point, with an additional 113 upgradient wells screened in the Merritt Sand located between 1 and 2 miles east-southeast of Alameda Point. The majority of the wells were installed during the 1970s to

provide a supplemental source of irrigation water for nearby homeowners. The existence of these wells, in addition to the classification of the aquifer as Class II, makes the groundwater in this area a potential current drinking water source.

In addition, the San Francisco Bay Regional Water Quality Control Board (RWQCB) has recommended removing the drinking water supply use designation for groundwater beneath the entire western portion and groundwater beneath part of the central portion (west of IR Site 8) in accordance with the recently completed *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report* (RWQCB, 1999), the *Proposed Groundwater Amendments to the Water Quality Control Plan (Basin Plan)* (RWQCB, 2000a), and the *Board Resolution 00-024* (RWQCB, 2000b) due to the following:

- High TDS levels
- Existing saltwater intrusion
- Potential for additional saltwater intrusion
- Vulnerability of the groundwater to point and non-point sources of contamination
- Groundwater not reasonably expected to serve as a public drinking water supply

1.3 TIDAL INFLUENCE STUDIES

A tidal influence study was conducted in Fall 2004 and documented in a report entitled *Fall 2004 Tidal Study For Installation Restoration Sites 1 and 2* (Shaw, 2005). The purpose of the study was to quantify the influence of tides on water levels in Alameda Point wells. The report concluded that groundwater monitoring wells near the San Francisco Bay shoreline at IR Sites 1 and 2 are moderately to strongly influenced by tidal fluctuations in San Francisco Bay. The magnitude of this tidal influence is quantified in terms of *tidal range* and *tidal efficiency*. Tidal range is the absolute difference in water elevation between low and high tide at a given point. Tidal efficiency is the tidal range in the groundwater at a specific monitoring well location divided by the tidal range at the adjacent shoreline. Tidal efficiency, expressed as a percentage, ranges anywhere from 0.3 to 90.9 percent at IR Site 1 and from 0.3 to 100 percent at IR Site 2. Any well with a tidal efficiency of 8 percent or greater is considered to be "tidally-affected". Tidally-affected wells have tidal variations that can cause water levels to fluctuate by as much as 0.5 feet or greater (Shaw 2005).

The tidally-affected wells at IR Sites 1 and 2 are listed in the tables below:

Installation Restoration Site 1			
Well	**Geologic Unit**	**Hydrologic Unit**	**Tidal Efficiency (percent)**
M002-A	FILL	FWBZ	14.3
M026-A	FILL	FWBZ	57
M029-A	FILL	FWBZ	8.7
M002-E	FILL	FWBZ	90.9
M025-E	FILL/BSU	SWBZ	52.6
M026-E	FILL/BSU	FWBZ	37
M030-E	FILL	FWBZ	10
Installation Restoration Site 2			
Well	**Geologic Unit**	**Hydrologic Unit**	**Tidal Efficiency (percent)**
M015-A	FILL	FWBZ	8.3
M016-A	FILL	FWBZ	20.8
M018-A	FILL	FWBZ	35.7
M019-A	FILL	FWBZ	33.3
M022-A	FILL	FWBZ	83.3
M023-A	FILL	FWBZ	37
M016-E	FILL	FWBZ	23.3
M019-E	BSU	FWBZ	100
M022-E	FILL	FWBZ	100
M023-E	FILL	FWBZ	73.8
M024-E	FILL	FWBZ	40

The tidally-affected wells are mainly located on the shoreline perimeters of the two IR Sites. Interior wells at these sites exhibit low to immeasurable tidal efficiencies.

In Spring 2006, an informal tidal study was conducted to evaluate whether nearshore FWBZ wells outside of IR Sites 1 and 2 are tidally affected. Pressure transducers were placed in 23

wells located throughout Alameda Point, to investigate areas where groundwater was considered to be potentially tidally-affected. A few wells were purposely selected outside of suspected areas of tidal influence to act as controls on the investigation. Each transducer logged hourly groundwater-level measurements over the course of a 25 hour period. The transducers were then removed from their respective wells and the information collected was downloaded for evaluation. Of the 23 well locations included in the tidal study, 7 showed notable tidal influences, i.e. water levels in these wells showed sinusoidal fluctuations that mirrored the mixed-semidiurnal tides that characterize the San Francisco Bay. In all cases the tidally-influenced wells were within 100 ft of the shoreline. The results of the informal tidal investigation are summarized in the following table (inset):

IR Site	Well ID	Geologic Unit	Tidally-Affected?
3	372-MW1	Fill	NO
3	M03-04	Fill-BSU	NO
3	M07B-01	Fill-BSU	NO
3	M11-05	Fill-BSU-Upper Merritt	NO
3	**OU2B-MW-01**	**Fill-Upper Merritt**	**YES**
3	**OU2B-MW-05**	**Fill-Upper Merritt**	**YES**
5	M10-02	Fill	NO
5	M117-E	Fill-BSU	NO
6	M06-03	Fill	NO
9	MW410-2	Fill-BSU	NO
9	MWOR2	Fill-BSU	NO
14	M101-A	Fill	NO
14	**M14-01**	**Fill-BSU**	**YES**
14	M14-03	Fill-BSU	NO
16	608MJ-MW2	Fill-BSU	NO
16	MW16-06	Fill-BSU	NO
25	M25-02	Fill-BSU	NO
25	M25-04	Fill-BSU	NO
27	**15-MW1**	**Fill-BSU**	**YES**
27	**15-MW2**	**Fill-BSU**	**YES**
27	27-MW05	Fill-BSU	NO
28	**28SW01**	**Fill-BSU**	**YES**
28	**28SW03**	**Fill-BSU**	**YES**

Tidal efficiencies were calculated for the tidally-influenced wells with the following results:

Summary of Study Well Tidal Efficiencies – Spring 2006

Well ID	IR Site	Tidal Efficiency	% Tidal Efficiency
OU2B-MW01	3	0.197	19.7
OU2B-MW05	3	0.194	19.4
M14-01	14	0.518	51.8
15-MW1	27	0.500	50.0
15-MW2	27	0.511	51.1
28SW01	28	0.107	10.7
28SW03	28	0.516	51.6

The results for the tidally-influenced wells were compared to the predicted water levels at tidal monitoring station 9414750. Maintained by the National Oceanic and Atmospheric Administration (NOAA), this station is located at Alameda Point and is characterized by a mixed-semidiurnal (12-hour) tide. Appendix A shows measured water-levels in each tidally-affected well compared to the predicted water levels at tidal station 9414750 for the same time period. The graphs demonstrate that the Alameda Point wells closely follow the predicted tidal fluctuations at Alameda Point. The graphs presented in Appendix A are aligned to show that the peak groundwater levels in the tidally-affected monitoring wells tend to follow the predicted tidal peaks with relatively minor lag times, generally on the order of 10 minutes or less. These lag times should only be considered a rough approximation, since site-specific tidal monitoring stations were not used in this limited, informal study. However, the data collected are sufficient to conclude that lag times in the tidally-affected wells are not likely to be significant (i.e. the responses in the tidally-affected wells appear to be on the scale of minutes rather than hours behind the tides). Appendix A also presents the 24-hour average water levels for each well calculated using the method described in the paper published in Ground Water by Michael Serfes, *Determining the Mean Hydraulic Gradient of Ground Water Affected by Tidal Fluctuations* (Serfes, 1991).

It is important to note tidally-affected wells when collecting groundwater elevation data since groundwater levels collected from tidally-influenced wells may not reflect the true hydraulic gradient. Tidally-affected wells, unless properly corrected for tidal influence, will introduce errors when included on potentiometric surface maps. In order to maximize the usefulness and applicability of water level data, groundwater elevation measurement rounds at Alameda Point are conducted such that all potentially tidally-affected wells are measured during equivalent tidal stages, preferably within one hour of the daily lower-low tide.

FIGURES

Projects/2002/02-125 Navy HPS/CTO-0009 021250g Almda Prod Inv/Graphics/Site Location Map.ai

ITSI Innovative Technical Solutions, Inc.

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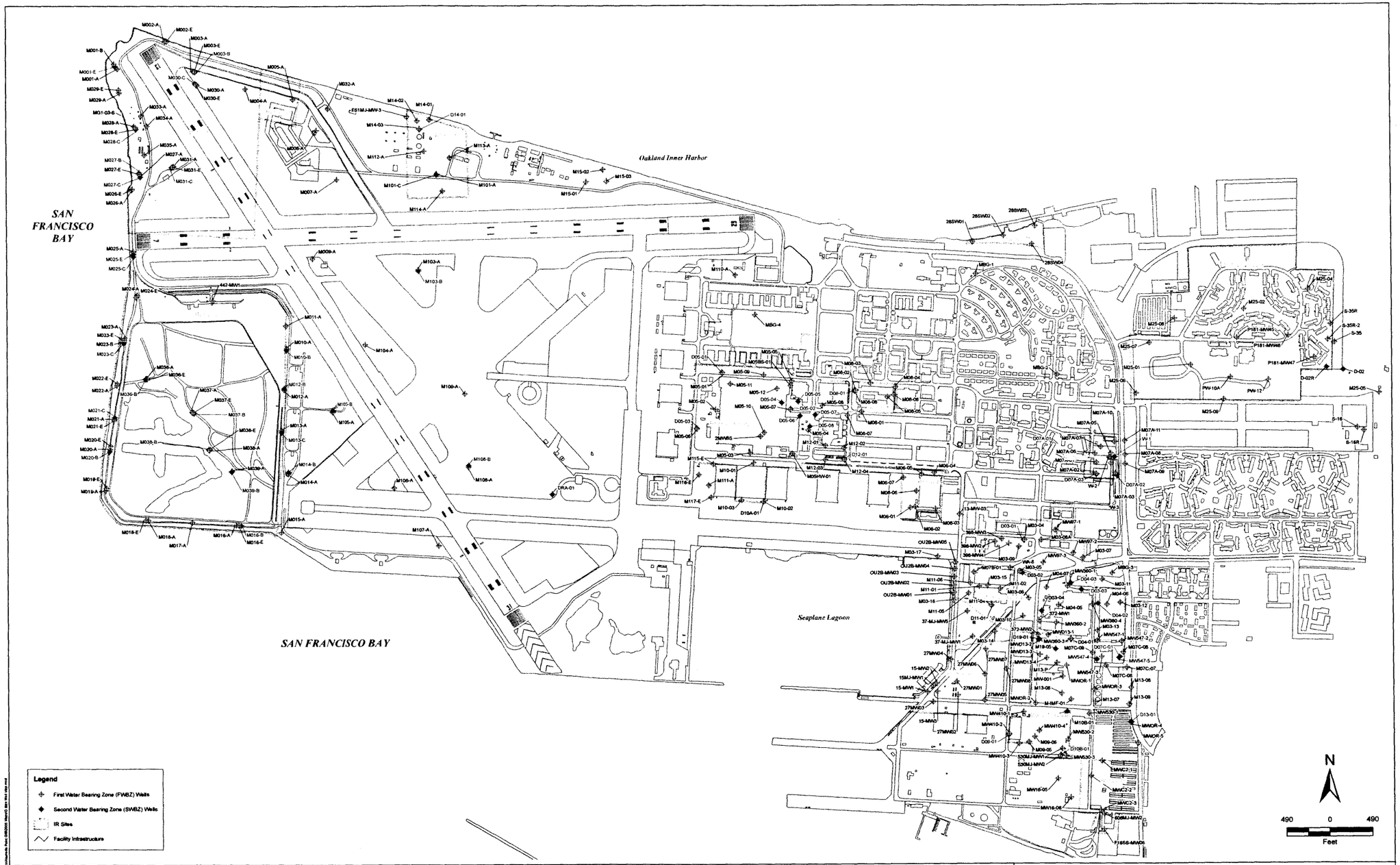
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 1-1
FACILITY LOCATION MAP



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PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 1-2
BASEWIDE WELL LOCATION MAP

2.0 SUMMER 2005 THROUGH SPRING 2006 GROUNDWATER MONITORING EVENTS

This section discusses the sampling methodology and analytical strategy for collecting groundwater, vapor (landfill gas and soil gas), and investigation-derived waste (IDW) samples during the Basewide Groundwater Monitoring Program. The current sampling year, Summer 2005 through Spring 2006, included two separate sampling events:

- Summer 2005 (June-July 2005)
- Spring 2006 (March 2006)

The previously scheduled Fall 2005 and Winter 2005 quarterly and semi-annual events were suspended pending the outcome of negotiations between the Navy and the Alameda BCT regarding recommended changes to the Basewide Groundwater Monitoring Program described in further detail in Section 2.4. The reduction of the Summer 2005 to Spring 2006 Basewide Program to two monitoring events is consistent with the negotiated changes, which resulted in the elimination of nearly all quarterly sampling events in the Basewide Groundwater Monitoring Program. In addition, the radionuclide analyses normally included on the analyte list for Sites 1 and 2 which were temporarily suspended during the Fall/Winter 2004, Spring 2005, and Summer 2005 sampling events due to Navy budget constraints were reinstated for the Spring 2006 event. The suspended radionuclide analyses were Gamma-Emitting Radionuclides (EPA Method 901.1), Radioactive Strontium (EPA Method 905.0), and Uranium Isotopes (EPA Method 908.0 Modified).

The field sampling activities were consistent with the procedures and guidelines described in the Final Work Plan (Shaw, 2004). The Summer 2005 sampling event encompassed 221 wells with analytes scheduled for sampling on a quarterly and semi-annual basis, as required under the previous monitoring program. The Spring 2006 sampling event included 192 wells with analytes scheduled for sampling on a quarterly, semi-annual and annual basis in concordance with the new schedule negotiated for the 2006 sampling year. In addition, approximately 300 wells were monitored for groundwater elevation during each event. Table 2-1 presents the planned sampling frequency for 2006 and Table 2-2 presents the schedule for landfill gas sampling at Alameda Point.

Analytical data for the Spring 2006 sampling event, including the results for all field duplicates and quality control samples listed by IR Site, is presented in Appendix B. Data quality issues pertaining to the current sampling year are discussed in Appendix C. Field forms are included in Appendix D.

2.1 OBJECTIVES

Thirteen IR sites within Alameda Point were monitored for groundwater quality and three IR sites were monitored for soil gas in the vadose zone as part of the Alameda Basewide Groundwater Monitoring Program. The Groundwater Monitoring Program is designed to inventory, assess, and evaluate the adequacy of the existing basewide monitoring well network, as well as to evaluate the presence and distribution of contaminants in the groundwater and soil gas in vadose zone.

2.2 PROGRAM OVERVIEW

According to the Final Work Plan (Shaw, 2004), nineteen individual or co-mingled groundwater plumes have been identified for inclusion in the basewide monitoring program. The plumes generally consist of chlorinated constituents, petroleum hydrocarbons, fuel-related compounds, metals, or a combination of these contaminants.

In order to monitor these plumes, groundwater samples are being collected during quarterly/semiannual/annual sampling events from the existing monitoring wells and analyzed for appropriate parameters at an offsite analytical laboratory. Tables 3-1, 4-1, 5-1, etc. through 15-1 summarize the selected chemical characterization constituents, natural attenuation parameters, and the sampling frequency for each IR site. These tables use color-coded highlighting to show which wells were sampled for which analytes in Summer 2005 (yellow), Spring 2006 (green) or during both events (blue). The sampling locations are shown on Figures 3-1, 4-1, 5-1, etc. through 15-1. To the extent practicable, considering site access conditions and other logistics, sampling was initiated at or outside the assumed plume boundaries (i.e., least contaminated monitoring wells) and then working inward.

2.3 GROUNDWATER MONITORING PROGRAM FIELD ACTIVITIES

Groundwater monitoring program field activities consisted of collecting water level elevation measurements, and collecting groundwater and landfill soil gas samples for analysis.

A visual inspection was performed at each well prior to initiating the actual groundwater sampling activities during each sampling event. Any changes in the surroundings and conditions that could potentially compromise the data or sampling results were documented on field sample collection logs (included in Appendix D).

2.3.1 Groundwater Elevation Measurements

Approximately 300 wells were measured for groundwater elevation during each sampling event. Groundwater levels and well depths were measured to a 0.01-foot precision from a surveyed measuring point marked on top of the well casing. Water level in each well was measured by lowering the measuring tape of a water level sounder until the probe contacts the groundwater and triggers a sound at the surface. The tape was then read to the nearest hundredth of a foot against the surveyed mark on the top of well casing and recorded in a water level form upon verifying that the groundwater level was equilibrated (depth to groundwater was stabilized) within each well. Measurements were conducted using a product interface probe so that the thickness of dense nonaqueous-phase liquids or light nonaqueous-phase liquids could be measured, if present at any of the wells. Total depth measurements were obtained by lowering the tape until the bottom of the well could be felt and then reading the tape at the top of the well casing. Due to the large number of wells required by the program for water level monitoring, each of the thirteen program sites was monitored within a 12-hour period. The portion of the water level sounder that contacted groundwater was decontaminated after each use to prevent cross-contamination. The groundwater elevation measurements are used to produce the comprehensive Basewide Groundwater Elevation Map included as Figure 2-1.

2.3.2 Groundwater Sample Collection

Low-flow purging technique was used to collect representative groundwater samples in wells scheduled for sampling. A peristaltic pump was used to draw groundwater to the surface through dedicated tubing, the input end of which was generally set at the middle of the well screen. A controlled low flow rate, ranging from 300 to 500 milliliters per minute, was maintained; the

water level was monitored and the pump flow rate adjusted to achieve a steady state (inflow into the well casing from the formation and outflow through the tubing approximately equivalent). Prior to the collection of a sample, the wells were purged and water quality parameters monitored approximately every 3 to 5 minutes for pH, specific conductivity, temperature, turbidity, oxidation-reduction potential (ORP), and dissolved oxygen (DO). A minimum of three successive measurements of water quality parameters were recorded during the purging process at each well until stabilization of parameters was achieved. Stabilization was defined by achieving three successive readings within plus or minus 0.1 pH units, plus or minus 1 degree Celsius for temperature, 3 percent conductivity, and 10 percent DO concentrations. If water quality parameters had not stabilized in a well after three readings, purging was continued until stabilization occurred, or until a maximum of three calculated well volumes had been purged. Following purging, groundwater samples were collected directly from the discharge pump line into the laboratory-supplied containers, appropriately labeled in the field, and immediately placed in a cooler with ice.

2.3.3 Landfill Gas Sample Collection

Landfill gas and soil gas monitoring were performed for three IR sites (1, 2, and 25) during the Summer 2005 and Spring 2006 event. Landfill gas and soil gas were collected as grab samples with a passivated 6-liter Summa® canister. Vapors in each gas probe were initially purged a minimum of two casing volumes using a portable landfill gas monitor (Landtec 2000) and monitored for methane (percent and percent lower explosive limit [LEL]), oxygen (percent), carbon dioxide (percent), and balance gas (percent, assumed to be nitrogen), volatile organic compounds (VOCs) (parts per million), and hydrogen sulfide (parts per million). Grab sampling was performed when all parameters monitored during purging were verified to have stabilized. Collection of gas samples from monitoring points was conducted by:

- Verifying that the canisters had a vacuum pressure of no less than 27 inches of mercury prior to sample collection and recording the initial vacuum,
- Attaching the Summa® canister to the well and slowly opening the canister valve,
- Upon completion of sample collection, closing the Summa® canister valve and disconnecting the filter and flow meter,
- Measuring and recording the final pressure of the canister,
- Labeling the sample using the tag attached to the canister,

- Storing the canister properly to avoid exposure to high temperatures (cold storage is not required).
- Resealing the probe upon completion of monitoring (ensuring that the probe is always sealed when not being monitored).

2.3.4 Quality Assurance/Quality Control Samples

Field quality control (QC) samples for this project included field duplicates, trip blanks, temperature blanks, and matrix spike/ matrix spike duplicate (MS/MSD) samples. Field duplicate samples were collected in the field at a frequency of 10 percent for each of the thirteen IR sites, and analyzed for the same analytes as their corresponding original samples. Trip blanks were placed in coolers used for wells requiring VOC analysis and analyzed for VOCs as well. Temperature blanks were placed in coolers for cooler temperature checks. MS/MSD samples were collected at a frequency of every 20 groundwater field samples per IR site.

2.3.5 Decontamination Procedures

Water level sounders were appropriately decontaminated by spraying with the non-phosphate detergent and thoroughly rinsing with de-ionized water after a well was sampled. Other intrusive sampling materials, such as tubing used to purge and sample groundwater and vapors, were either dedicated to specific use at individual monitoring wells or were disposable, thus eliminating the need for decontamination.

2.3.6 Investigation-Derived Waste Management

IDW produced under the groundwater monitoring program consisted of solid and liquid wastes generated from the sampling activities. Solid wastes were mainly consisted of used nitrile gloves and discarded tubing and bailers placed in regular trash bags and disposed of as regular wastes in a trash receptacle. Liquid wastes were mainly consisted of groundwater accumulated from the purging of each well, and a lesser amount of fluid used for decontamination.

A total volume of 600 gallons of liquid waste were accumulated from the combined Summer 2005 and Spring 2006 events. The liquid wastes were stored in a double contained 2,400-gallon poly-tank and 55-gallon drums in the Navy pending analysis storage yard. Liquid wastes samples were collected from the poly-tank and drums with a disposable bailer and transferred to laboratory supplied containers at the end of the Spring 2006 field activities. Based on the

analytical results, East Bay Municipal Utility District (EBMUD) profiled and classified the waste stream as non-hazardous waste and approved the Waste Acceptance Agreement permit authorizing the disposal in their facility. On May 25, 2006 all liquid waste was transferred to a tank truck and transported for final disposal at the EBMUD's facility in Oakland, California.

2.4 GROUNDWATER MONITORING PROGRAM EVALUATION AND RECOMMENDATIONS

The analytical results for groundwater samples collected at IR sites included in the Basewide Groundwater Monitoring Program from Summer 2002 through Spring 2005 were reviewed and evaluated following the sampling frequency and analyte reduction procedures originally presented in the *Work Plan for Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California* (Shaw, 2004a). Recommended revisions to the Basewide Program based on that evaluation were presented in tables included in the Spring 2005 Annual Report. Upon review of the recommendations, it became apparent that following the well-by-well approach embodied in the decision matrix tended to result in a relatively disjointed analytical program, where some of the wells at a particular site might be sampled quarterly for a particular group of analytes while other wells at the same site would be sampled semiannually or annually for the same analytes. Since groundwater analytical data is time-correlative (i.e. analytical results are best compared to results obtained for the same sampling event) the suggested changes would result in a data stream that would be difficult to interpret. In addition, sampling different sets of wells on different frequencies at each site and for each analyte group makes the program difficult to track and manage.

After preliminary discussions with the Navy and the Alameda BCT, an alternative method of evaluation was suggested to address these issues by looking at each site as a whole in order to determine which data to collect at each site (not well-by-well) based on the known contaminants and distribution at each site. The alternative recommendations were presented in a document entitled *Technical Memorandum, Basewide Monitoring Program Evaluation and Recommendations, Alameda Point, Alameda, California* (ITSI, 2005). The Technical Memorandum was submitted for Navy and BCT review in October 2005. Subsequent Navy and regulatory review comments on the Technical Memorandum were ultimately resolved during a groundwater technical session held by the Navy and BCT on February 8, 2006. The end result of

the reviews of the Technical Memorandum and other specific agency-recommended changes introduced during the groundwater technical session led to the current Basewide Groundwater Monitoring Program sampling matrix shown on Table 2-1. Most of the wells in the current program are now sampled on a semiannual basis, with annual sampling for selected analytes, most notably natural attenuation parameters. The semiannual events are timed to coincide with the seasonal high (Spring) and seasonal low (Fall) periods of groundwater elevation, with annual sampling conducted during the Spring event. A total of nine wells (5 at IR Site 3 Group and 4 at IR Site 28) continue to be sampled on a quarterly basis. The new program was initiated with the Spring 2006 sampling event.

No changes were made to the landfill gas sampling, other than the reduction of the sampling frequency for Fixed Gases at IR Site 25 Group from quarterly to annual, in accordance with the original Shaw Work Plan. The schedule for landfill soil gas sampling is presented in Table 2-2.

TABLES

Table 2-1

ALAMEDA POINT

Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency for 2006

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 1	M001-A	FWBZ									A		A															
IR Site 1	M001-E	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M002-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M003-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M004-A	FWBZ												A	A	A	A	A	A									
IR Site 1	M005-A	FWBZ			S															S	S	S	S	S	S	S	S	
IR Site 1	M006-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M007-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M025-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M026-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M027-A	FWBZ			S		A		A	A	A		A	A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M028-A	FWBZ							A		A									S	S	S	S	S	S	S	S	
IR Site 1	M028-E	FWBZ			S		A		A	A	A		A	A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M029-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M030-A	FWBZ			S		A		A	A	A		A							S	S	S	S	S	S	S	S	
IR Site 1	M031-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M032-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M033-A	FWBZ			S		A				A		A	A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M034-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M035-A	FWBZ			S		A				A		A							S	S	S	S	S	S	S	S	
IR Site 1	M001-B	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M003-B	SWBZ			A						A			A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M025-C	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M027-B	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M027-C	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M028-C	SWBZ			A						A			A	A	A	A	A	A	S	S	S	S	S	S	S	S	
IR Site 1	M030-C	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 1	M031-C	SWBZ			A						A									S	S	S	S	S	S	S	S	
IR Site 2	442-MW1	FWBZ	S	S	S		A	A	S	A	S				A	A	A			S	S	S	S	S	S	S	S	

Table 2-1

ALAMEDA POINT

Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency for 2006

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 2	M010-A	FWBZ			S																							
IR Site 2	M011-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M012-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M013-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M014-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
R Site 2	M016-A	FWBZ	S	S	S		A	A	S	A					A	A	A		A									
IR Site 2	M016-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M017-A	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M018-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M018-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M019-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M019-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M020-A	FWBZ	S	S	S		A	A	S	A	S																	
IR Site 2	M020-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M021-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M021-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M022-A	FWBZ	S	S	S		A	A	S	A																		
IR Site 2	M022-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M023-A	FWBZ	S	S	S			A	S	A	S																	
IR Site 2	M023-E	FWBZ					A				S									S	S	S	S	S	S	S	S	
IR Site 2	M024-A	FWBZ	S	S	S		A	A	S	A	S																	
IR Site 2	M024-E	FWBZ	S	S	S		A	A	S	A	S									S	S	S	S	S	S	S	S	
IR Site 2	M036-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A									
IR Site 2	M036-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M037-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A									
IR Site 2	M037-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M038-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A									
IR Site 2	M038-E	FWBZ									S									S	S	S	S	S	S	S	S	
IR Site 2	M039-A	FWBZ	S	S	S		A	A	S	A	S				A	A	A		A	S	S	S	S	S	S	S	S	

Date Revised: 01-26-06 Date Printed: 10/23/2006

Table 2-1

ALAMEDA POINT

Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency for 2006

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 2	M010-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M012-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M013-C	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M014-B	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M016-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M020-B	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M021-C	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M023-B	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M023-C	SWBZ	S	S	A		A	A			S									S	S	S	S	S	S	S	S	
IR Site 2	M036-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M037-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M038-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 2	M039-B	SWBZ	S	S	A		A	A			S				A	A	A		A	S	S	S	S	S	S	S	S	
IR Site 3	372-MW1	FWBZ	A	A	A						A[1]			A	A	A	A	A	A									
IR Site 3	398-MW4	FWBZ	S	S	S						S[1]			A	A	A	A	A	A									
IR Site 3	M03-04	FWBZ	S	S	S						S[1]				A				A									
IR Site 3	M03-05	FWBZ	S	S	S						S[1]			A	A	A	A	A	A									
IR Site 3	M03-06	FWBZ	S	S	S						S[1]			A	A	A	A	A	A									
IR Site 3	M03-07	FWBZ	S	S	S						S[1]				A													
IR Site 3	M03-09	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-10	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-11	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-12	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-13	FWBZ	S	S	S						S[1]																	
IR Site 3	M03-14	FWBZ			S																							
IR Site 3	M03-15	FWBZ			S						S																	
IR Site 3	M03-16	FWBZ			S						S																	
IR Site 3	M04-05	FWBZ	S	S	S						S[1]			A	A	A	A	A	A									
IR Site 3	M04-06	FWBZ	S	S	S						S[1]				A				A									

Table 2-1

ALAMEDA POINT

Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency for 2006

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES								
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 3	M07B-01	FWBZ	A	A	A						A[1]				A			A	A								
IR Site 3	M11-01	FWBZ									S[1]																
IR Site 3	M11-04	FWBZ	S	S	S						S[1]				A				A								
IR Site 3	M11-05	FWBZ	S	S	S						S[1]			A	A	A	A	A	A								
IR Site 3	M11-06	FWBZ	S	S	S						S[1]				A				A								
IR Site 3	MW360-1	FWBZ	A	A	A						A[1]				A				A								
IR Site 3	MW360-2	FWBZ	S	S	S						S[1]			A	A	A	A	A	A								
IR Site 3	MW360-3	FWBZ	S	S	S						S[1]				A				A								
IR Site 3	MW360-4	FWBZ	A	A	A						A[1]				A				A								
IR Site 3	MW97-3	FWBZ	S	S	S						S[1]				A				A								
IR Site 3	MW01	FWBZ	S	S	S						Q			A	A	A	A	A	A								NEW WELL
IR Site 3	MW02	FWBZ	S	S	S						Q				A				A								NEW WELL
IR Site 3	MW03	FWBZ	S	S	S						Q				A				A								NEW WELL
IR Site 3	MW04	FWBZ	S	S	S						Q				A				A								NEW WELL
IR Site 3	MW05	FWBZ	S	S	S						Q			A	A	A	A	A	A								NEW WELL
IR Site 3	D03-01	SWBZ	S	S	A						S[1]				A				A								
IR Site 3	D03-02	SWBZ			S						S																
IR Site 3	D03-03	SWBZ			A						S																
IR Site 3	D03-04	SWBZ			A						S																
IR Site 3	D04-01	SWBZ	A	A	A						A[1]			A	A	A	A	A	A								
IR Site 3	D04-02	SWBZ	A	A	A						A[1]			A	A	A	A	A	A								
IR Site 3	D04-03	SWBZ	S	S	S						S[1]				A				A								
IR Site 3	D11-01	SWBZ	S	S	A						S[1]			A	A	A	A	A	A								
IR Site 5	2MW8S	FWBZ	S	S	S		A	A	S		S[1]	S		A	A	A	A	A									
IR Site 5	M05-02	FWBZ			S						S																
IR Site 5	M05-05	FWBZ	S	S	S						S[1]	S		A	A	A	A	A									
IR Site 5	M05-06	FWBZ	S	S	S						S[1]	S															
IR Site 5	M05-08	FWBZ	S	S	S						S[1]	S		A	A	A	A	A									
IR Site 5	M05-09	FWBZ	S	S	S						S[1]	S		A	A	A	A	A									

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ALAMEDA POINT

Groundwater Monitoring Wells, Analytical Parameters and Planned Sampling Frequency for 2006

			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES									
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 5	M12-04	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M05-11	FWBZ	S	S	S						S1	S		A	A	A	A	A										
IR Site 5	M05HW-01	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M05-04	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M10-01	FWBZ	S	S	S				S		S[1]	S		A	A	A	A	A										
IR Site 5	M10-02	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	M117-E	FWBZ	S	S	S						S[1]	S		A	A	A	A	A										
IR Site 5	D05-01	SWBZ	A	A	A						A[1]	A		A	A	A	A	A										
IR Site 5	D05-03	SWBZ	S	S	S						S[1]	S																
IR Site 5	D05-04	SWBZ			S										A	A	A	A										
IR Site 5	D05-05	SWBZ			S										A	A	A	A										
IR Site 5	D05-06	SWBZ			S										A	A	A	A										
IR Site 5	D12-01	SWBZ	A	A	A						A[1]	A		A	A	A	A	A										
IR Site 6	13-MW-03	FWBZ			S	S																						
IR Site 6	M06-01	FWBZ			S	S																						
IR Site 6	M06-02	FWBZ			S	S																						
IR Site 6	M06-03	FWBZ	A	A	S	S					A			A	A	A	A	A										
IR Site 6	M06-05	FWBZ	A	A	S	S					A			A	A	A	A	A										
IR Site 6	M06-06	FWBZ	A	A	S	S					A			A	A	A	A	A										
IR Site 6	M06-07	FWBZ			S	S	S							A	A	A	A	A										
IR Site 7	M07A-03	FWBZ	S	S	S			S			S			A	A	A	A	A										
IR Site 7	M07A-10	FWBZ	S	S	S			S			S			A	A	A	A	A										
IR Site 8	M08-01	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	M08-03	FWBZ	S	S	S	S			S		S[1]			A	A	A	A	A										
IR Site 8	M08-05	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	M08-07	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	M08-08	FWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										
IR Site 8	M08-06	FWBZ	S	S	S	S			S		S[1]			A	A	A	A	A										
IR Site 8	D08-01	SWBZ	A	A	A	A			A		A[1]			A	A	A	A	A										

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ALAMEDA POINT

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			ORGANIC COMPOUNDS								INORGANIC COMPOUNDS			NATURAL ATTENUATION PARAMETERS						RADIONUCLIDES									
AREA	SAMPLE LOCATION	HSZ	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Polynuclear Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Cyanide (EPA 9010B/335.2)	Methane, ethane, ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by Hach 8146	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Uranium isotopes (EPA Method 908 Modified)	COMMENTS
IR Site 9	M07C-08	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	M13-06	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	M13-07	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	M13-08	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	M13-09	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	MW410-1	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	MW410-2	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	MW410-3	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	MW410-4	FWBZ	S	S	A						A[1]			A	A	A	A	A										
IR Site 9	MWD13-3	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	MWD13-4	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	MWOR-4	FWBZ	S	S	S						A[1]			A	A	A	A	A										
IR Site 9	D07C-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D09-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D10B-02	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D13-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 9	D19-01	SWBZ	A	A	A						A[1]			A	A	A	A	A										
IR Site 14	M101-A	FWBZ	S	S	S						S[1]			A	A	A	A	A										
IR Site 14	M14-01	FWBZ	S	S	S						S[1]			A	A	A	A	A										
IR Site 16	608MJ-MW2	FWBZ	S	S	S	S			S	S	S[1]			A	A	A	A	A										
IR Site 16	F16SS-MW06	FWBZ			S	S			S	S				A	A	A	A	A										
IR Site 16	MW16-05	FWBZ			S	S			S	S	S[1]			A	A	A	A	A										
IR Site 16	MW16-06	FWBZ			S	S			S	S	S[1]			A	A	A	A	A										
IR Site 16	MWC2-3	FWBZ	S	S	S	S			S	S	S[1]			A	A	A	A	A										
IR Site 25	M25-01	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	M25-02	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	M25-04	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	M25-05	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	M25-06	FWBZ			S			S																				

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IR Site 25	M25-07	FWBZ			S			S																				
IR Site 25	M25-08	FWBZ			S			S																				
IR Site 25	M25-09	FWBZ			S			S			S			A	A	A	A	A										Replacement for M25-03
IR Site 25	P181-MW45	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	P181-MW46	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	P181-MW47	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	PW-12	FWBZ			S			S			S			A	A	A	A	A										
IR Site 25	S-16-R	FWBZ			S			S			S			A	A	A	A	A										Replacement for S-16
IR Site 25	S-35R-2	FWBZ			S			S			S			A	A	A	A	A										Replacement for S-35
IR Site 25	D-02	SWBZ			A			A			S			A	A	A	A	A										
IR Site 27	15-MW1	FWBZ		S	S						S[1]			A	A	A	A	A										
IR Site 27	15-MW2	FWBZ		S	S						S[1]			A	A	A	A	A										
IR Site 27	15-MW3	FWBZ		S	S						S[1]			A	A	A	A	A										
IR Site 27	27MW06	FWBZ		S	S						S[1]			A	A	A	A											
IR Site 28	28SW01	FWBZ									Q	Q							Q									
IR Site 28	28SW02	FWBZ									Q	Q							Q									
IR Site 28	28SW03	FWBZ									Q	Q							Q									
IR Site 28	28SW04	FWBZ									Q	Q							Q									

Notes:

Analyte list based on Final Work Plan, Table 3-3a, with modifications per BCT.
FWBZ = First Water-Bearing Zone
SWBZ = Second Water-Bearing Zone
red font color = newly-installed or pre-existing wells proposed for inclusion in the program.

Q = Quarterly
S = Semiannual
A = Annual
[1] Priority Pollutant Metals Only

Table 2-2 Schedule for Landfill Gas Sampling at Alameda Point

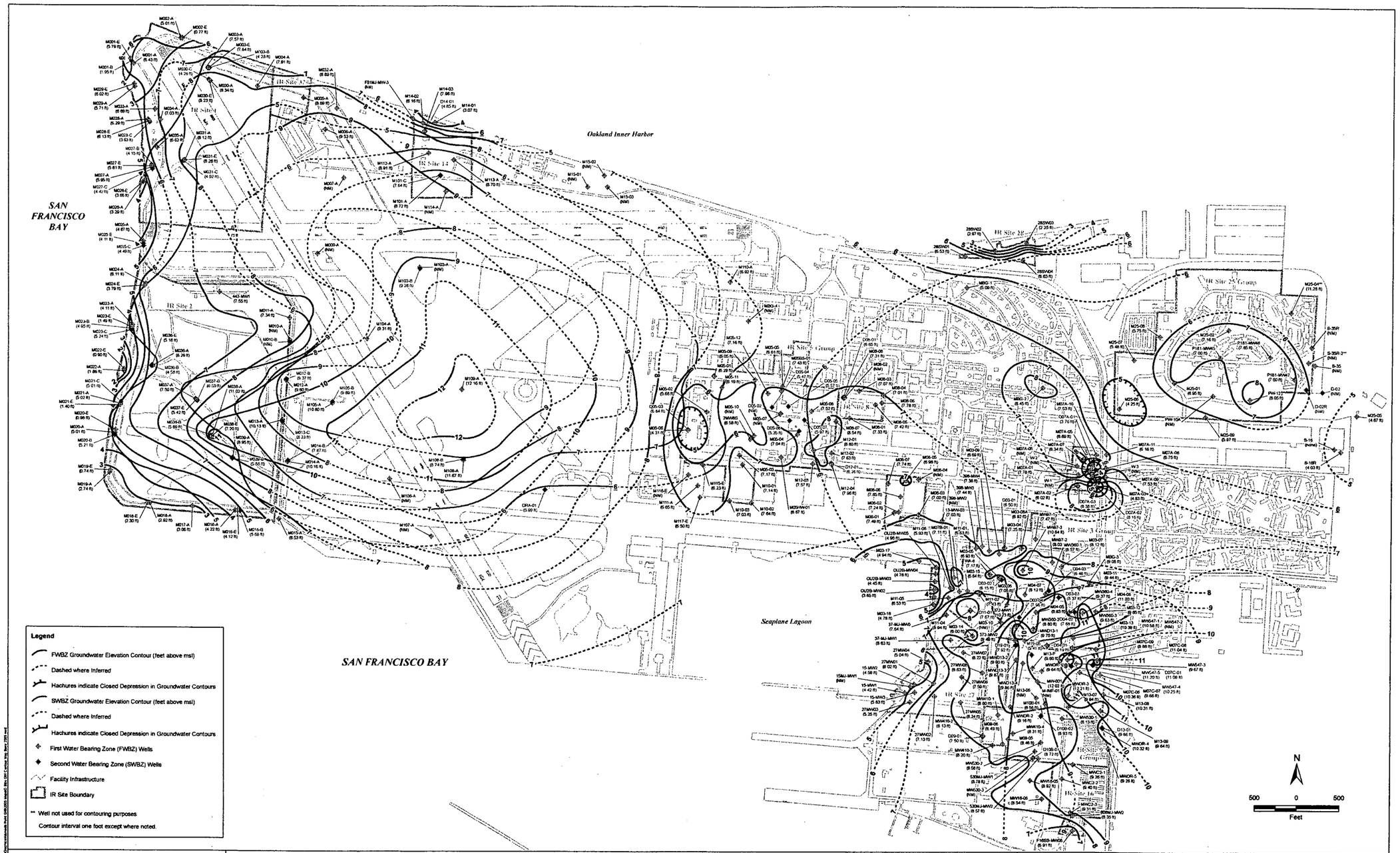
					Soil Gas	
AREA	SAMPLE LOCATION	WATER-BEARING ZONE	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (TO15)	FiQed Gases (ASTM D1946)
IR Site 1	MG1-01-S	Vadose	Landfill	2 - 4	Q	A
IR Site 1	MG1-01-D	Vadose	Landfill	5 - 7	Q	A
IR Site 1	MG1-02-S	Vadose	Landfill	1 - 3	Q	A
IR Site 1	MG1-02-D	Vadose	Landfill	4 - 6	Q	A
IR Site 1	MG1-03-S	Vadose	Landfill	0 - 1	Q	A
IR Site 1	MG1-03-D	Vadose	Landfill	2 - 4	Q	A
IR Site 1	MG1-04-S	Vadose	Landfill	0 - 2	Q	A
IR Site 1	MG1-04-D	Vadose	Landfill	2.5 - 4.5	Q	A
IR Site 1	MG1-05-S	Vadose	Landfill	0.4 - 2.4	Q	A
IR Site 1	MG1-05-D	Vadose	Landfill	3 - 5	Q	A
IR Site 2	MG2-01-S	Vadose	Landfill	0.5 - 1.8	Q	A
IR Site 2	MG2-01-D	Vadose	Landfill	2.5 - 4	Q	A
IR Site 2	MG2-02-S	Vadose	Landfill	2 - 3	Q	A
IR Site 2	MG2-02-M	Vadose	Landfill	4.5 - 6	Q	A
IR Site 2	MG2-02-D	Vadose	Landfill	7 - 9	Q	A
IR Site 2	MG2-03-S	Vadose	Landfill	0.5 - 2	Q	A
IR Site 2	MG2-03-M	Vadose	Landfill	2.5 - 3.5	Q	A
IR Site 2	MG2-03-D	Vadose	Landfill	4.5 - 6	Q	A
IR Site 2	MG2-04-S	Vadose	Landfill	1.8 - 2.3	Q	A
IR Site 2	MG2-04-M	Vadose	Landfill	3.8 - 5.3	Q	A
IR Site 2	MG2-04-D	Vadose	Landfill	6.3 - 7.8	Q	A
IR Site 2	MG2-05-S	Vadose	Landfill	1 - 2.5	Q	A
IR Site 2	MG2-05-D	Vadose	Landfill	3.5 - 5	Q	A
IR Site 25 Group	OU5-SG-16-S	Vadose	Fill	3 - 3.5	Q	A
IR Site 25 Group	OU5-SG-16-D	Vadose	Fill	4.5 - 6	Q	A
IR Site 25 Group	OU5-SG-17-S	Vadose	Fill	1 - 2.5	Q	A
IR Site 25 Group	OU5-SG-17-D	Vadose	Fill	3.5 - 5	Q	A
IR Site 25 Group	OU5-SG-18-S	Vadose	Fill	2 - 4	Q	A
IR Site 25 Group	OU5-SG-18-D	Vadose	Fill	5 - 7	Q	A
IR Site 25 Group	OU5-SG-19-S	Vadose	Fill	1.5 - 3.5	Q	A
IR Site 25 Group	OU5-SG-19-D	Vadose	Fill	4.5 - 6.5	Q	A
IR Site 25 Group	OU5-SG-20-S	Vadose	Fill	2 - 4	Q	A
IR Site 25 Group	OU5-SG-20-D	Vadose	Fill	6 - 8	Q	A

Notes:

Q Well sampled for this parameter on a quarterly schedule.

A Well sampled for this parameter on an annual schedule.

FIGURES



ITSI Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 2-1
GROUNDWATER ELEVATIONS
SPRING 2006

3.0 INSTALLATION RESTORATION SITES 1 AND 32

IR Sites 1 and 32 are located at the northwestern end of former Runway 31, south of Oakland Inner Harbor and east of San Francisco Bay.

IR Site 1 is an inactive waste disposal area located in northwestern Alameda Point (Figure 3-1). The IR Site 1 landfill accepted all solid waste generated at Alameda Point between 1943 and 1956. Wastes included municipal garbage, construction debris, transformers, cleaning solvents, oil/lubricants, ordnance and explosive waste, and radiological materials such as radium dials and buttons. The landfill was constructed within a rock seawall to the north and sunken barges (i.e., barge lines) to the west. The rock seawall and barges provided structure for hydraulic fill. During the early 1940s, the disposal area was filled with dredge spoils. After 1956, the landfill was retired and covered to comply with existing standards. The landfill was partially covered by Runways 13-31 and 7-25 extensions in 1952. It was subsequently used as a recreation area, which included a pistol range, baseball diamond, skeet range, and jogging trail. The Navy indicated on a 1988 questionnaire that the IR Site 1 disposal area is unlined (Shaw, 2004).

Potential contamination sources at IR Sites 1 and 32 include the following:

- Landfill materials or waste
- Radionuclides from radium dials and buttons
- Ordnance and explosives waste
- Open burning of refuse in the northwestern portion of the site
- Pistol range materials (i.e., leaching of lead into groundwater)

IR Site 1 was selected for demonstration of a funnel and gate system to treat groundwater contaminated with chlorinated solvents (using in situ reactive iron) and petroleum hydrocarbons (using bioremediation). The funnel and gate system was installed at the groundwater hot spot (upgradient of well M028-E) in December 1996 (TtEMI, 2002).

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Sites 1 and 32 included sampling and analysis of 32 groundwater monitoring wells (24 FWBZ wells and eight SWBZ wells) and 10 soil gas monitoring points. Another five groundwater monitoring

wells (four FWBZ and one SWBZ) are used for quarterly groundwater-level measurement only. All groundwater and soil gas monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 3-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 3-1.

3.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 36 groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Sites 1 and 32. The results are presented along with previously collected water-level data in Table 3-2. Groundwater flow direction and gradient are discussed in Section 3.4.1. Trends in groundwater elevations are discussed in Section 3.4.4.

3.2 ANALYTICAL PARAMETERS

Groundwater samples collected from monitoring wells at IR Sites 1 and 32 during the Summer 2005 and Spring 2006 sampling events were analyzed for one or more of the following parameters (Table 3-1):

- VOCs by EPA Method 8260B
- Semivolatile Organic Compounds (SVOCs) by EPA Method 8270C
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Total Cyanide by EPA Method 9010B/335.2
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Organochlorine Pesticides by EPA Method 8081A
- Radionuclides by EPA Methods 9310/900.0, 901.1, 9315/903.0, 906.0, 904.0, 905.0, and 908 modified
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 3-1 lists the groundwater monitoring wells that are active in the current Basewide Monitoring Program and the analytical requirements for each well.

In addition, soil gas samples collected from landfill gas monitoring points in Summer 2005 and Spring 2006 were analyzed for VOCs (EPA Method TO-15) and Fixed Gases (American Society for Testing and Materials [ASTM] Method D1946). The soil gas wells had been sampled for the first time during the Spring 2005 sampling event.

3.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 and Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 3-3 through 3-11 as follows:

- Table 3-3, "Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 3-4, "Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 3-5, "Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide, Summer 2002 through Spring 2006"
- Table 3-6, "Groundwater Sample Analytical Results at IR Sites 1 and 32: Polychlorinated Biphenyls, Spring 2004 through Spring 2006"
- Table 3-7, "Groundwater Sample Analytical Results at IR Sites 1 and 32: Organochlorine Pesticides, Spring 2004 through Spring 2006"
- Table 3-8, "Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides, Summer 2002 through Spring 2006"
- Table 3-9, "Groundwater Sampling Field Parameters at IR Sites 1 and 32, Summer 2002 through Spring 2006"
- Table 3-10, "Groundwater Sample Analytical Results at IR Sites 1 and 32: Natural Attenuation Parameters, Summer 2002 through Spring 2006"
- Table 3-11, "Soil Gas Analytical Results at IR Sites 1 and 32: Volatile Organic Compounds and Fixed Gases, Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are

shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

Some of the radionuclide analyses normally included on the analyte list were temporarily suspended during the Fall/Winter 2004 through Summer 2005 events. The suspended radionuclide analyses were Gamma-Emitting Radionuclides (EPA Method 901.1), Radioactive Strontium (EPA Method 905.0), and Uranium Isotopes (EPA Method 908.0 Modified). These analyses were not considered to be critical to the ongoing groundwater monitoring program for radionuclides, based on a review of the historic data and the known and suspected sources of radiological materials present at Alameda Point. Appropriate analytical methods for gross radiological parameters (alpha and beta) and specific radionuclide isotopes, specifically total radium (EPA Method 903.0), radium-228 (EPA Method 904.0), and tritium (EPA Method 906.0), were retained. As of the Spring 2006 sampling event, the above-listed suspended methods were re-inserted into the sampling program for the site.

3.4 DISCUSSION OF RESULTS

Groundwater samples collected from IR Sites 1 and 32 monitoring wells are not currently analyzed for total petroleum hydrocarbons (TPH). Groundwater samples collected in the Summer 2002 sampling event indicated that groundwater concentrations of TPH were low to non-detect for most of the site wells; the highest TPH concentration found was 490 micrograms per liter (µg/L) TPH characterized as gasoline in one groundwater sample collected from well M034-A (Table 3-3). Common constituents of gasoline, such as benzene, toluene, ethylbenzene and xylenes, are being monitored through the groundwater analysis for volatile organic compounds, discussed below.

Concentrations of various aromatic and chlorinated hydrocarbons have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the

FWBZ at IR Sites 1 and 32. The following VOC analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **benzene, toluene, carbon tetrachloride, chlorobenzene, 1,4-dichlorobenzene (1,4-DCBZ), 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride** (Table 3-12). The distribution of aromatic and chlorinated hydrocarbons in FWBZ groundwater monitoring wells at IR Sites 1 and 32 are discussed more fully in Section 3.4.2. Only trace VOC concentrations were detected in groundwater collected from monitoring wells screened in the SWBZ during current sampling year events, with none above MCLs (Table 3-12).

Groundwater concentrations of SVOCs were predominantly low to non-detect for most of the wells sampled during the Summer 2004 through Spring 2005 season. One well, M028-E, contained considerably higher SVOC concentrations than all of the other site wells, with significantly elevated (210 to 1,000 µg/L) concentrations of 2,4-dimethylphenol. Groundwater from well M028-E also exhibited the highest concentrations of VOCs. The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **Bis (2-ethylhexyl) phthalate and 1,4-DCBZ** (Table 3-12). SWBZ wells showed no detectable concentrations of any SVOCs during the current sampling year (Table 3-4).

The following dissolved metals were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **Antimony, arsenic, cadmium,** and **thallium** (Table 3-12). Of these metals, only arsenic was present in both sampling events at concentrations significantly above the published Background Values (TtEMI, 2001b): at wells M007-A and M028-E, arsenic was reported at factors of two to five times the Background Values.

The following dissolved metals were detected at concentrations exceeding their respective MCLs in SWBZ wells during the Summer 2005 to Spring 2006 sampling year: **Arsenic, lead,** and **thallium** (Table 3-12). Total Cyanide concentrations were low to non-detect in groundwater collected from all wells sampled (both FWBZ and SWBZ) during the current sampling year (Table 3-5).

No detectable concentrations of PCBs have ever been found in groundwater samples collected from IR Sites 1 and 32 wells since PCB sampling was initiated in Spring 2004 (Table 3-6).

Only very low to non-detect concentrations of organochlorine pesticides have generally been found in groundwater samples collected from IR Sites 1 and 32 wells since pesticide sampling was initiated in Spring 2004; however, well M028-E had a concentration of heptachlor epoxide greater than the MCL in Summer 2005 (Table 3-7).

The results of the Summer 2005 and Spring 2006 radionuclide analysis are discussed below followed by the results of an evaluation of the cumulative data set. The following radionuclide values were detected at concentrations exceeding their respective MCLs during the Summer 2005 to Spring 2006 sampling year:

First Water-Bearing Zone

- **Gross Beta** was measured above the MCL of 50 picocuries per liter (pCi/L) in three FWBZ wells, at a maximum concentration of 179 pCi/L in groundwater collected from well M026-A in Summer 2005.

- **Total strontium** was measured above the MCL of 8 pCi/L in one FWBZ well, at a concentration of 27.5 pCi/L in groundwater collected from well M001-E in Spring 2006. This concentration was the only total strontium detection found in groundwater samples collected during the current sampling year.

Second Water-Bearing Zone

- **Gross Beta** was measured above the MCL of 50 pCi/L in all eight SWBZ wells sampled during the current sampling year, at a maximum concentration of 377 (estimated concentration) pCi/L in groundwater collected from well M001-B in Spring 2006. Gross beta values have consistently been present in groundwater collected from the SWBZ wells at concentrations above the MCL of 50 pCi/L.

Other detectable radioactive species identified at Sites 1 and 32 during the current sampling year include gross alpha, potassium 40, radium 226, radium 228, uranium 233/234, and uranium 238 (Table 3-8).

Soil gas results indicate that TCE, tetrachloroethene (PCE), vinyl chloride, toluene, and benzene are present at low concentrations in soil gas at various locations at IR Site 1 (Table 3-11). The distribution of VOCs in soil gas at IR Sites 1 and 32 is further discussed in Section 3.4.2.

3.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 3-2. Groundwater flow direction in the FWBZ at IR Sites 1 and 32 is generally towards the north and west at a gradient of approximately 0.003 feet per foot, with strong westward and northward flow components as groundwater approaches the San Francisco Bay and Oakland Inner Harbor shorelines, respectively. Groundwater monitoring wells along the western and northern shoreline limits of IR Site 1 show moderate to strong tidal influence (Shaw, 2005), as discussed in Section 1.3.

Groundwater flow direction in the SWBZ at IR Sites 1 and 32 is generally towards the northwest at a gradient of approximately 0.002 feet per foot. Water levels in the SWBZ wells at IR Sites 1 and 32 are generally 1 to 4 feet lower than nearby FWBZ wells, indicating an overall downward vertical gradient. Vertical gradients are discussed more fully in Section 3.4.4.

3.4.2 Groundwater and Soil Gas Contaminant Distribution

Concentrations of aromatic and chlorinated hydrocarbons are present in FWBZ groundwater at IR Sites 1 and 32. The distribution of selected aromatic and chlorinated hydrocarbons are shown on Figures 3-3 and 3-4. Cis-1,2-DCE and benzene were chosen as indicator compounds to show the distribution of volatile organic constituents in groundwater. All volatile organic constituents that were detected at concentrations exceeding MCLs during the current sampling year (Summer 2005 through Spring 2006) fall within the approximate plume boundaries for these two compounds shown on Figures 3-3 and 3-4. The highest concentrations of volatile organic constituents are generally found along the western shoreline of the former IR Site 1 landfill, centered on the location of paired FWBZ wells M028-A and M028-E. Well M028-E, screened in the lower portion of the FWBZ in hydraulic fill material, consistently shows the highest groundwater concentrations of both aromatic and chlorinated hydrocarbons (with the exception of TCE, as discussed below) at IR Sites 1 and 32 (Table 3-3).

There appears to be a separate area of chlorinated hydrocarbon groundwater contamination (mainly TCE with lesser concentrations of cis-1,2-DCE and vinyl chloride) along the northern shoreline of IR Site 1, based on the analytical results for groundwater samples collected from monitoring well M002-A (Figure 3-3).

Four metals exceeded their respective MCLs in the current year's sampling events at IR Sites 1 and 32 wells. However, for three of these metals (antimony, cadmium, and thallium), exceedances at specific wells have been reported only sporadically (generally once or twice since the basewide sampling program began in 2002) and do not appear to represent ongoing metals contamination of groundwater (Table 3-5). The exception to this pattern is arsenic, which has been consistently reported above its MCL (reduced to 10 µg/L as of January 2006) in three wells at IR Sites 1 and 32: M007-A, M028-E, and M027-B. The arsenic occurrence at M007-A is isolated from the other arsenic exceedances, and downgradient migration is limited; thus the area arsenic contamination there is limited. The other two arsenic MCL exceedances are near the western shoreline, and are at somewhat greater depth ("E" and "B" wells) than near-surface "A" wells. These may represent an area of contiguous arsenic contamination. The occurrences may be related to reducing chemical conditions at depth. Such conditions are indicated by the especially high iron (greater than 10,000 µg/L), manganese, and low oxidation-reduction potential (ORP; Table 3-9) at these wells; reducing conditions also generally favor the mobilization of arsenic.

Soil gas results for landfill gas monitoring points showed low concentrations of the same organic constituents found in groundwater (TCE, vinyl chloride, toluene, and benzene), along with PCE (Table 3-11). Soil gas probes with the highest results (greater than 5 ppbv) are located in the west-central part of the site, in the area where a groundwater plume of chlorinated hydrocarbons also exists (compare Figure 3-5 with Figure 3-3). PCE was detected in groundwater at only one FWBZ well (Table 3-3); the relative paucity of PCE in groundwater compared to soil gas may relate to the relatively low mobility of this compound in groundwater (due to low solubility and high sorption to solids).

3.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 3-12, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 3-12 also lists the historical maximum concentrations (Summer 2002 through Spring 2005) for each analyte. In general, concentrations of analytes

detected during the Summer 2005 through Spring 2006 sampling year were similar to those found in previous sampling years.

Differences with respect to MCLs are:

- 1,1-dichloroethene (1,1-DCE), trans-1,2-DCE, bis(2-ethylhexyl)phthalate, selenium, and gross alpha were less than MCLs for the current sampling year, but exceeded MCLs in historical samples.
- Carbon tetrachloride, cadmium, and total strontium exceeded MCLs during the current sampling year, but had not previously exceeded MCLs.

3.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2006 Annual Report:

- Figure 3-6a, "Trends in Groundwater Elevations at IR Sites 1 and 32: Northwest-Oriented FWBZ Wells."
- Figure 3-6b, "Trends in Groundwater Elevations at IR Sites 1 and 32: North-South Oriented FWBZ Wells Near IR Site 32."
- Figure 3-6c, "Trends in Groundwater Elevations at IR Sites 1 and 32: Clustered Wells Within Zone of Tidal Influence at IR Site 1."
- Figure 3-6d, "Trends in Groundwater Elevations at IR Sites 1 and 32: Clustered Wells Outside Zone of Tidal Influence at IR Site 1."
- Figure 3-6e, "Trends in Groundwater Elevations at IR Sites 1 and 32: Clustered Wells Outside Zone of Tidal Influence at IR Site 1."

The following observations can be made from viewing the hydrographs:

1. Groundwater elevations for wells outside the zone of tidal influence at IR Sites 1 and 32 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. The similarity in well behavior, even for widely spaced monitoring wells, is especially apparent on Figures 3-6a and 3-6b.

2. Hydrographs for IR Sites 1 and 32 wells indicate slight overall increases in groundwater elevations over time, i.e. peak seasonal elevations for most wells have shown a tendency to increase every year since 2002.

3. Hydrographs for clustered wells located within the zone of tidal influence, as shown on Figure 3-6c, indicate reversals in the vertical gradient between co-located FWBZ and SWBZ wells; i.e. groundwater elevations for the FWBZ wells are sometimes higher and other times lower than the corresponding SWBZ wells. This reversal in

vertical gradient may be due to tidal fluctuations in the FWBZ wells, but additional information is required to determine if this is the case.

4. Hydrographs for clustered wells from outside the zone of tidal influence, as shown on Figures 3-6d and 3-6e, consistently indicate a downward vertical gradient between co-located FWBZ and SWBZ wells; i.e. groundwater elevations for the FWBZ wells are higher than the corresponding SWBZ wells. A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is missing.

3.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at IR Sites 1 and 32 since monitoring was initiated in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 3-7 and 3-8.

Although the groundwater concentrations of both aromatic (benzene, toluene, 1,4-DCBZ) and chlorinated (TCE, cis-1,2-DCE, 1,1-DCA, vinyl chloride) hydrocarbons show significant up and down fluctuations (possibly associated with seasonal groundwater changes) the overall trends of the time-series plots indicate a general decrease in peak annual concentrations over time for most analytes. Specifically, well M028-A, the well with the highest concentrations for both aromatic and chlorinated hydrocarbons, had significantly lower concentrations of both groups of compounds in the current sampling year than for any year since the monitoring program began. In addition, plume boundaries appear to be stable: wells defining the plume boundaries consistently show low to non-detect concentrations of organic constituents, and the same constituents tend to show up in the same set of wells from one sampling event to another.

3.4.6 Trends in Radionuclides

In the Spring 2004 Annual Report, Shaw presented an evaluation of the previously collected radiological data entitled *Evaluation of Eight Rounds of Alameda NAS Radiological Groundwater Analyses Obtained from June 2002 through April 2004* (Shaw, 2004). The evaluation was presented in a Memorandum included as Appendix D in the Spring 2004 Annual Report. In the Memorandum, Shaw concluded that no gross alpha anomalies were present in any of the samples collected during the first eight rounds of sampling for radiological analysis at Sites 1 and 2 (Shaw, 2004). In general, the past three years' sampling results tend to support that

conclusion, since gross alpha concentrations above the MCL are uncommon and do not appear consistently in any one well at Sites 1 and 2.

Gross beta activity at Site 1 was recorded for almost every well at the site, and concentrations above the MCL were not uncommon in the Summer 2005 to Spring 2006 groundwater samples. Shaw concluded in the Spring 2004 Annual Report that there is a strong positive correlation between total potassium concentrations and gross beta activity at both Sites 1 and 2. This suggests that naturally-occurring potassium-40 may be a significant contributor to the gross beta activity observed in the groundwater (Shaw, 2004). The current sampling year's data tends to support this interpretation (Tables 3-5 and 3-8).

Radium 226 and 228 were not detected above the MCL (5 pCi/L for the sum of the isotopes) during the Summer 2005 to Spring 2006 sampling year. In previous sampling events, the sum of Ra-226 and Ra-228 at location M028-C exceeded the MCL in four of the eight samples analyzed for both isotopes.

Based on an evaluation of the U-234/U-238 ratios at the site, Shaw concluded in the Spring 2004 Annual Report that the source of the detected uranium isotopes at Sites 1 and 2 is natural rather than due to depleted or enriched materials. The current sampling year's data tends to support this interpretation.

3.5 CONCLUSIONS AND RECOMMENDATIONS

Groundwater samples from IR Sites 1 and 32 contain levels of a variety of analytes exceeding MCLs, including aromatic and chlorinated VOCs, SVOCs, metals, and radionuclides. The highest concentrations are generally found in the FWBZ and along the western shoreline of the former IR Site 1 landfill. A smaller area of TCE contamination exists along the northern shoreline of IR Site 1.

Soil gas sampling results are generally consistent with the groundwater results. While VOC concentrations have fluctuated through time, a generally decreasing trend can be observed for most analytes. Contaminant plume boundaries appear to be stable and not expanding.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 3-1
Groundwater Monitoring Summary, IR Sites 1 and 32 - Summer 2005 and Spring 2006

				Organic Compounds				Inorganic Compounds		Natural Attenuation Parameters						Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Cyanide (EPA 9010B/335.2)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	FiQed Gases (ASTM D1946)
Groundwater Monitoring Program Wells																									
First	M001-A	Fill	4 - 14	X	X	X	X	X	X							X	X	X	X	X	X	X	X	---	---
	M001-E	Fill	9.5 - 19.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M002-A	Fill	4 - 10	X	X	X	X	X	X							X	X	X	X	X	X	X	X	---	---
	M003-A	Fill	4 - 14	X	X	X	X	X	X							X	X	X	X	X	X	X	X	---	---
	M004-A	Fill	3.5 - 13.5	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	---
	M005-A	Fill	2.9 - 12.9	X												X	X	X	X	X	X	X	X	---	---
	M006-A	Fill	4 - 14	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M007-A	Fill	3.5 - 13.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M025-A	Fill	4 - 14	X	X	X	X	X	X							X	X	X	X	X	X	X	X	---	---
	M026-A	Fill	3.5 - 13.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M026-E	Fill-BSU	11 - 21	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M027-A	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	---
	M027-E	Fill	12 - 22	X																				---	---
	M028-A	Fill	4 - 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	---
	M028-E	Fill	11 - 21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	---
	M029-A	Fill	4 - 14	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M029-E	Fill	10 - 20	X	X			X	X							X	X	---	X	X	X	---	---	---	---
	M030-A	Fill	2.5 - 12.5	X	X	X	X	X	X							X	X	X	X	X	X	X	X	---	---
	M031-A	Fill	2.5 - 12.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M031-E	Fill	8 - 18	X																				---	---
	M032-A	Fill	2.5 - 12.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M033-A	Fill	4.25 - 12.5	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	---
	M034-A	Fill	4.25 - 12.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M035-A	Fill	4 - 14	X	X			X	X							X	X	X	X	X	X	X	X	---	---
Second	M001-B	Merritt	62 - 72	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M003-B	Merritt	33 - 43	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	---
	M025-C	BSU	70 - 79.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M027-B	Merritt	56 - 66	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M027-C	BSU-USA	80 - 90	X	X			X	X							X	X	X	X	X	X	X	X	---	---

Table 3-1
Groundwater Monitoring Summary, IR Sites 1 and 32 - Summer 2005 and Spring 2006

				Organic Compounds				Inorganic Compounds		Natural Attenuation Parameters						Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Cyanide (EPA 9010B/335.2)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	FIQed Gases (ASTM D1946)
Second	M028-C	USA	80 - 90	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	---
	M030-C	USA	76.5 - 86.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
	M031-C	Merritt-USA	77.5 - 87.5	X	X			X	X							X	X	X	X	X	X	X	X	---	---
Vadose	MG1-01-S	Landfill	2 - 4																					X	X
	MG1-01-D	Landfill	5 - 7																					X	X
	MG1-02-S	Landfill	1 - 3																					X	X
	MG1-02-D	Landfill	4 - 6																					X	X
	MG1-03-S	Landfill	0 - 1																					X	X
	MG1-03-D	Landfill	2 - 4																					X	X
	MG1-04-S	Landfill	0 - 2																					X	X
	MG1-04-D	Landfill	2.5 - 4.5																					X	X
	MG1-05-S	Landfill	0.4 - 2.4																					X	X
	MG1-05-D	Landfill	3 - 5																					X	X
Non-Program Wells, Water Level Only																									
First	M002-E	Fill	10 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M003-E	Fill	11.25 - 21.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M008-A	Fill	6 - 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M030-E	Fill	6 - 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Second	M025-E	Fill-BSU	17 - 27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event
Well sampled for this parameter at the Spring 2006 sampling event
Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events
--- Analytical parameter temporarily suspended for the Summer 2005 and Spring 2006 sampling events.
- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compound
PCBs - Polychlorinated Biphenyls

GER - Gamma Emitting Radionuclides
(8260B) - U.S. Environmental Protection Agency analytical method
TDS - Total Dissolved Solids
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M001-A	9.5	9.02 *	04/17/06	2.59	6.43
		9.5	9.02 *	08/22/05	4.67	4.35
		9.5	9.02 *	03/01/05	2.82	6.20
		9.5	9.02 *	11/10/04	4.35	4.67
		9.5	9.02 *	06/14/04	4.90	4.12
		9.5	9.02 *	03/02/04	2.86	6.16
		9.5	9.02 *	12/03/03	4.56	4.46
		9.5	9.02 *	09/15/03	4.96	4.06
		9.5	9.02 *	06/24/03	4.63	4.39
		9.5	9.02 *	04/08/03	4.31	4.71
		9.5	9.02 *	12/10/02	4.64	4.38
		9.5	9.02 *	09/13/02	5.50	3.52
		9.5	9.02 *	06/27/02	7.90	1.12
First	M001-E	10.2	9.74 *	04/17/06	3.95	5.79
		10.2	9.74 *	08/22/05	5.45	4.29
		10.2	9.74 *	03/01/05	3.95	5.79
		10.2	9.74 *	11/10/04	5.48	4.26
		10.2	9.74 *	06/14/04	6.53	3.21
		10.2	9.74 *	03/02/04	3.97	5.77
		10.2	9.74 *	12/03/03	6.15	3.59
		10.2	9.74 *	09/15/03	6.43	3.31
		10.2	9.74 *	06/24/03	5.82	3.92
		10.2	9.74 *	04/08/03	5.89	3.85
		10.2	9.74 *	12/10/02	5.92	3.82
		10.2	9.74 *	09/13/02	5.87	3.87
		10.2	9.74 *	06/27/02	5.73	4.01
First	M002-A	11.2	10.94 *	04/17/06	5.93	5.01
		11.2	10.94 *	08/22/05	6.56	4.38
		11.2	10.94 *	03/01/05	6.08	4.86
		11.2	10.94 *	11/10/04	6.01	4.93
		11.2	10.94 *	06/14/04	6.94	4.00
		11.2	10.94 *	03/02/04	5.28	5.66
		11.2	10.94 *	12/03/03	5.78	5.16
		11.2	10.94 *	09/15/03	6.88	4.06
		11.2	10.94 *	06/24/03	6.89	4.05
		11.2	10.94 *	04/08/03	6.88	4.06
		11.2	10.94 *	12/10/02	6.00	4.94
		11.2	10.94 *	09/13/02	6.72	4.22
		11.2	10.94 *	06/26/02	6.51	4.43
First	M002-E ‡	11.4	10.79 **	04/17/06	10.02	0.77
		11.4	10.79 **	08/22/05	10.35	0.44
		11.4	10.79 **	03/01/05	9.32	1.47
		11.4	10.79 **	11/10/04	6.65	4.14
		11.4	10.79 **	06/14/04	6.58	4.21
		11.4	10.79 **	03/02/04	4.71	6.08
		11.4	10.79 **	12/03/03	4.81	5.98
		11.4	10.79 **	09/15/03	8.41	2.38
First	M003-A	11.3	10.81 *	04/11/06	3.24	7.57
		11.3	10.81 *	08/22/05	6.24	4.57
		11.3	10.81 *	03/01/05	3.61	7.20
		11.3	10.81 *	11/10/04	5.92	4.89
		11.3	10.81 *	06/14/04	6.02	4.79

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M003-A	11.3	10.81 *	03/02/04	3.80	7.01
		11.3	10.81 *	12/03/03	5.99	4.82
		11.3	10.81 *	09/15/03	6.50	4.31
		11.3	10.81 *	06/24/03	5.73	5.08
		11.3	10.81 *	04/08/03	4.97	5.84
		11.3	10.81 *	12/10/02	6.19	4.62
		11.3	10.81 *	09/13/02	6.59	4.22
		11.3	10.81 *	06/26/02	6.14	4.67
First	M003-E ‡	11.3	11.00 **	04/17/06	3.36	7.64
		11.3	11.00 **	08/22/05	6.36	4.64
		11.3	11.00 **	03/01/05	3.79	7.21
		11.3	11.00 **	11/10/04	6.01	4.99
		11.3	11.00 **	06/14/04	6.25	4.75
		11.3	11.00 **	03/02/04	3.91	7.09
		11.3	11.00 **	12/03/03	6.12	4.88
		11.3	11.00 **	09/15/03	6.65	4.35
First	M004-A	10.6	10.27 *	04/11/06	2.36	7.91
		10.6	10.27 *	08/22/05	5.93	4.34
		10.6	10.27 *	03/01/05	2.63	7.64
		10.6	10.27 *	11/10/04	5.55	4.72
		10.6	10.27 *	06/14/04	5.39	4.88
		10.6	10.27 *	06/26/02	6.05	4.22
		10.6	10.27 *	09/13/02	6.35	3.92
		10.6	10.27 *	12/10/02	6.00	4.27
		10.6	10.27 *	04/08/03	NF	NC
		10.6	10.27 *	06/24/03	5.63	4.64
		10.6	10.27 *	09/15/03	6.19	4.08
		10.6	10.27 *	12/03/03	5.88	4.39
		10.6	10.27 *	03/02/04	2.46	7.81
First	M005-A	10.9	10.57	04/11/06	1.88	8.69
		10.9	10.57	08/22/05	5.40	5.17
		10.9	10.57	03/01/05	2.01	8.56
		10.9	10.57	11/10/04	5.06	5.51
		10.9	10.57	06/14/04	4.30	6.27
		10.9	10.57	09/15/03	NF	NC
		10.9	10.57	12/03/03	NF	NC
		10.9	10.57	03/02/04	2.11	8.46
First	M006-A	10.5	10.29 *	04/11/06	0.76	9.53
		10.5	10.29 *	08/22/05	4.55	5.74
		10.5	10.29 *	03/01/05	0.95	9.34
		10.5	10.29 *	11/10/04	4.23	6.06
		10.5	10.29 *	06/14/04	4.30	5.99
		10.5	10.29 *	03/02/04	1.09	9.20
		10.5	10.29 *	12/03/03	4.57	5.72
		10.5	10.29 *	09/15/03	4.91	5.38
		10.5	10.29 *	06/24/03	3.81	6.48
		10.5	10.29 *	04/08/03	2.99	7.30
		10.5	10.29 *	12/10/02	4.78	5.51
		10.5	10.29 *	09/13/02	4.96	5.33
		10.5	10.29 *	06/26/02	4.30	5.99

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M007-A	8.6	8.22 *	04/11/06	MS	NC
		8.6	8.22 *	08/22/05	2.45	5.77
		8.6	8.22 *	03/01/05	0.00 †	8.22
		8.6	8.22 *	11/10/04	1.43	6.79
		8.6	8.22 *	06/14/04	2.29	5.93
		8.6	8.22 *	03/02/04	0.00 †	8.22
		8.6	8.22 *	12/03/03	2.12	6.10
		8.6	8.22 *	09/15/03	2.80	5.42
		8.6	8.22 *	06/24/03	2.05	6.17
		8.6	8.22 *	04/08/03	1.03	7.19
		8.6	8.22 *	12/10/02	2.30	5.92
		8.6	8.22 *	09/13/02	2.87	5.35
		8.6	8.22 *	06/26/02	2.35	5.87
First	M025-A	9.0	8.51 *	04/17/06	3.84	4.67
		9.0	8.51 *	08/22/05	4.80	3.71
		9.0	8.51 *	03/01/05	4.00	4.51
		9.0	8.51 *	11/10/04	3.96	4.55
		9.0	8.51 *	06/14/04	4.68	3.83
		9.0	8.51 *	03/02/04	3.32	5.19
		9.0	8.51 *	12/03/03	3.63	4.88
		9.0	8.51 *	09/15/03	4.86	3.65
		9.0	8.51 *	06/24/03	4.71	3.80
		9.0	8.51 *	04/08/03	5.26	3.25
		9.0	8.51 *	12/10/02	4.04	4.47
		9.0	8.51 *	09/13/02	5.03	3.48
		9.0	8.51 *	07/01/02	5.58	2.93
First	M026-A	8.7	8.61 *	04/17/06	5.32	3.29
		8.7	8.61 *	08/22/05	5.92	2.69
		8.7	8.61 *	03/01/05	5.15	3.46
		8.7	8.61 *	11/10/04	2.61	6.00
		8.7	8.61 *	06/14/04	4.51	4.10
		8.7	8.61 *	03/02/04	3.15	5.46
		8.7	8.61 *	12/03/03	3.08	5.53
		8.7	8.61 *	09/15/03	5.13	3.48
		8.7	8.61 *	06/24/03	4.82	3.79
		8.7	8.61 *	04/08/03	5.68	2.93
		8.7	8.61 *	12/10/02	4.21	4.40
		8.7	8.61 *	09/13/02	5.06	3.55
		8.7	8.61 *	07/12/02	5.55	3.06
First	M026-E	8.5	8.65 *	04/17/06	4.99	3.66
		8.5	8.65 *	08/22/05	5.38	3.27
		8.5	8.65 *	03/01/05	3.85	4.80
		8.5	8.65 *	11/10/04	3.31	5.34
		8.5	8.65 *	06/14/04	4.54	4.11
		8.5	8.65 *	03/02/04	3.39	5.26
		8.5	8.65 *	12/03/03	3.30	5.35
		8.5	8.65 *	09/15/03	5.35	3.30
		8.5	8.65 *	06/24/03	4.78	3.87
		8.5	8.65 *	04/08/03	5.49	3.16
		8.5	8.65 *	12/10/02	4.20	4.45
		8.5	8.65 *	09/13/02	5.17	3.48
		8.5	8.65 *	07/01/02	5.40	3.25

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M027-A	9.7	9.38 *	04/17/06	3.43	5.95
		9.7	9.38 *	08/22/05	4.90	4.48
		9.7	9.38 *	03/01/05	3.50	5.88
		9.7	9.38 *	11/10/04	4.58	4.80
		9.7	9.38 *	06/14/04	5.35	4.03
		9.7	9.38 *	03/02/04	3.66	5.72
		9.7	9.38 *	12/03/03	4.79	4.59
		9.7	9.38 *	09/15/03	6.22	3.16
		9.7	9.38 *	06/24/03	5.24	4.14
		9.7	9.38 *	04/08/03	4.95	4.43
		9.7	9.38 *	12/10/02	4.76	4.62
		9.7	9.38 *	09/13/02	5.18	4.20
		9.7	9.38 *	06/28/02	5.16	4.22
First	M027-E	10.0	9.41	04/17/06	3.6	5.81
		10.0	9.41	08/22/05	4.64	4.77
		10.0	9.41	03/01/05	3.46	5.95
		10.0	9.41	11/10/04	4.29	5.12
		10.0	9.41	06/14/04	5.13	4.28
		10.0	9.41	03/02/04	3.00	6.41
		10.0	9.41	12/03/03	4.53	4.88
		10.0	9.41	09/15/03	5.07	4.34
		10.0	9.41	09/13/02	4.95	4.46
First	M028-A	10.8	10.67 *	04/17/06	4.38	6.29
		10.8	10.67 *	08/22/05	6.40	4.27
		10.8	10.67 *	03/01/05	4.61	6.06
		10.8	10.67 *	11/10/04	5.91	4.76
		10.8	10.67 *	06/14/04	6.53	4.14
		10.8	10.67 *	03/02/04	5.01	5.66
		10.8	10.67 *	12/03/03	6.21	4.46
		10.8	10.67 *	09/15/03	6.54	4.13
		10.8	10.67 *	06/24/03	6.40	4.27
		10.8	10.67 *	04/08/03	6.16	4.51
		10.8	10.67 *	12/27/02	4.61 §	6.06
		10.8	10.67 *	09/13/02	6.58	4.09
		10.8	10.67 *	07/01/02	6.68	3.99
First	M028-E	10.8	10.42	04/17/06	4.29	6.13
		10.8	10.42	08/22/05	6.10	4.32
		10.8	10.42	03/01/05	4.42	6.00
		10.8	10.42	11/10/04	5.63	4.79
		10.8	10.42	06/14/04	6.25	4.17
		10.8	10.42	03/02/04	4.61	5.81
		10.8	10.42	12/03/03	6.98	3.44
		10.8	10.42	09/15/03	6.22	4.20
		10.8	10.42	06/24/03	6.04	4.38
		10.8	10.42	04/08/03	5.83	4.59
		10.8	10.42	12/10/02	6.03	4.39
		10.8	10.42	09/13/02	6.27	4.15
First	M029-A	9.8	9.46 *	04/17/06	3.75	5.71
		9.8	9.46 *	08/22/05	5.46	4.00
		9.8	9.46 *	03/01/05	4.00	5.46
		9.8	9.46 *	11/10/04	4.79	4.67
		9.8	9.46 *	06/14/04	4.74	4.72
		9.8	9.46 *	03/02/04	3.79	5.67
		9.8	9.46 *	12/03/03	5.28	4.18

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M029-A	9.8	9.46 *	09/15/03	5.70	3.76
		9.8	9.46 *	06/24/03	5.67	3.79
		9.8	9.46 *	04/08/03	5.41	4.05
		9.8	9.46 *	12/10/02	5.23	4.23
		9.8	9.46 *	09/13/02	5.70	3.76
		9.8	9.46 *	06/27/02	5.51	3.95
		9.1	8.62 *	08/22/05	4.25	4.37
		9.1	8.62 *	03/01/05	2.80	5.82
		9.1	8.62 *	11/10/04	4.01	4.61
		9.1	8.62 *	06/14/04	4.72	3.90
First	M029-E	9.1	8.62 *	04/17/06	2.60	5.86
		9.1	8.62 *	03/02/04	2.76	5.86
		9.1	8.62 *	12/03/03	4.43	4.19
		9.1	8.62 *	09/15/03	4.72	3.90
		9.1	8.62 *	06/24/03	4.68	3.94
		9.1	8.62 *	04/08/03	4.24	4.38
		9.1	8.62 *	12/10/02	4.41	4.21
		9.1	8.62 *	09/13/02	4.80	3.82
		9.1	8.62 *	06/27/02	4.67	3.95
First	M030-A	10.3	10.08 *	04/17/06	1.74	8.34
		10.3	10.08 *	08/22/05	5.25	4.83
		10.3	10.08 *	03/01/05	2.23	7.85
		10.3	10.08 *	11/10/04	4.56	5.52
		10.3	10.08 *	06/14/04	5.06	5.02
		10.3	10.08 *	03/02/04	2.42	7.66
		10.3	10.08 *	12/03/03	4.54	5.54
		10.3	10.08 *	09/15/03	5.55	4.53
		10.3	10.08 *	06/24/03	4.81	5.27
		10.3	10.08 *	04/08/03	3.79	6.29
		10.3	10.08 *	12/10/02	5.04	5.04
		10.3	10.08 *	09/13/02	6.62	3.46
		10.3	10.08 *	06/27/02	6.12	3.96
First	M030-E ‡	10.6	9.98	04/17/06	1.75	8.23
		10.6	9.98	08/22/05	5.16	4.82
		10.6	9.98	03/01/05	2.20	7.78
		10.6	9.98	11/10/04	4.52	5.46
		10.6	9.98	06/14/04	5.01	4.97
		10.6	9.98	03/02/04	2.39	7.59
		10.6	9.98	12/03/03	4.52	5.46
		10.6	9.98	09/15/03	5.46	4.52
		10.6	9.98	09/13/02	5.59	4.39
First	M031-A	8.8	8.47 *	04/11/06	0.35	8.12
		8.8	8.47 *	08/22/05	3.85	4.62
		8.8	8.47 *	03/01/05	0.45	8.02
		8.8	8.47 *	11/10/04	2.90	5.57
		8.8	8.47 *	06/14/04	3.80	4.67
		8.8	8.47 *	03/02/04	0.46	8.01
		8.8	8.47 *	12/03/03	NM	NC
		8.8	8.47 *	09/15/03	4.13	4.34
		8.8	8.47 *	06/24/03	3.57	4.90
		8.8	8.47 *	04/08/03	2.28	6.19
		8.8	8.47 *	12/10/02	3.54	4.93

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M031-E	8.8	8.47 *	09/13/02	4.16	4.31
		8.8	8.47 *	06/28/02	3.79	4.68
		8.9	8.51	04/11/06	0.25	8.26
		8.9	8.51	08/22/05	3.89	4.62
		8.9	8.51	03/01/05	0.50	8.01
		8.9	8.51	11/10/04	2.88	5.63
		8.9	8.51	06/14/04	3.81	4.70
		8.9	8.51	03/02/04	0.48	8.03
		8.9	8.51	12/03/03	3.24	5.27
		8.9	8.51	09/15/03	4.14	4.37
		8.9	8.51	09/13/02	4.17	4.34
First	M032-A	10.2	9.84 *	04/11/06	0.95	8.89
		10.2	9.84 *	08/22/05	4.35	5.49
		10.2	9.84 *	03/01/05	1.20	8.64
		10.2	9.84 *	11/10/04	4.11	5.73
		10.2	9.84 *	06/14/04	4.23	5.61
		10.2	9.84 *	03/02/04	1.37	8.47
		10.2	9.84 *	12/03/03	4.31	5.53
		10.2	9.84 *	09/15/03	4.62	5.22
		10.2	9.84 *	06/24/03	3.93	5.91
		10.2	9.84 *	04/08/03	3.26	6.58
		10.2	9.84 *	12/10/02	4.56	5.28
		10.2	9.84 *	09/13/02	4.70	5.14
		10.2	9.84 *	06/26/02	4.20	5.64
First	M033-A	10.4	10.14 *	04/11/06	3.45	6.69
		10.4	10.14 *	08/22/05	5.73	4.41
		10.4	10.14 *	03/01/05	3.65	6.49
		10.4	10.14 *	11/10/04	5.31	4.83
		10.4	10.14 *	06/14/04	5.78	4.36
		10.4	10.14 *	03/02/04	3.72	6.42
		10.4	10.14 *	12/03/03	5.60	4.54
		10.4	10.14 *	09/15/03	5.93	4.21
		10.4	10.14 *	06/24/03	5.60	4.54
		10.4	10.14 *	04/08/03	5.05	5.09
		10.4	10.14 *	12/10/02	5.67	4.47
		10.4	10.14 *	09/13/02	6.03	4.11
		10.4	10.14 *	06/28/02	5.78	4.36
First	M034-A	9.1	8.87 *	04/11/06	1.84	7.03
		9.1	8.87 *	08/22/05	3.40	5.47
		9.1	8.87 *	03/01/05	2.00	6.87
		9.1	8.87 *	11/10/04	3.88	4.99
		9.1	8.87 *	06/14/04	4.39	4.48
		9.1	8.87 *	03/02/04	2.07	6.80
		9.1	8.87 *	12/03/03	4.16	4.71
		9.1	8.87 *	09/15/03	4.56	4.31
		9.1	8.87 *	06/24/03	4.13	4.74
		9.1	8.87 *	04/08/03	3.62	5.25
		9.1	8.87 *	12/10/02	4.32	4.55
		9.1	8.87 *	09/13/02	4.63	4.24
		9.1	8.87 *	06/28/02	4.39	4.48

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M035-A	10.8	10.58 *	04/11/06	3.96	6.62
		10.8	10.58 *	08/22/05	6.06	4.52
		10.8	10.58 *	03/01/05	4.15	6.43
		10.8	10.58 *	11/10/04	5.73	4.85
		10.8	10.58 *	06/14/04	6.35	4.23
		10.8	10.58 *	03/02/04	4.20	6.38
		10.8	10.58 *	12/03/03	6.04	4.54
		10.8	10.58 *	09/15/03	5.75	4.83
		10.8	10.58 *	06/24/03	6.17	4.41
		10.8	10.58 *	04/08/03	5.65	4.93
		10.8	10.58 *	12/30/02	4.12 §	6.46
		10.8	10.58 *	09/13/02	6.38	4.20
		10.8	10.58 *	06/28/02	6.23	4.35
Second	M001-B	10.0	9.57 *	04/17/06	7.62	1.95
		10.0	9.57 *	08/22/05	7.82	1.75
		10.0	9.57 *	03/01/05	6.94	2.63
		10.0	9.57 *	11/10/04	4.50	5.07
		10.0	9.57 *	06/14/04	5.88	3.69
		10.0	9.57 *	03/02/04	4.14	5.43
		10.0	9.57 *	12/03/03	4.12	5.45
		10.0	9.57 *	09/15/03	6.47	3.10
Second	M003-B	10.0	9.57 *	04/11/06	6.95	2.62
		10.0	9.57 *	06/24/03	6.13	3.44
		10.0	9.57 *	04/08/03	7.68	1.89
		10.0	9.57 *	12/10/02	5.54	4.03
		10.0	9.57 *	09/13/02	2.35	7.22
		10.0	9.57 *	07/02/02	6.18	3.39
		11.2	11.23 *	04/11/06	6.95	4.28
		11.2	11.23 *	08/22/05	8.86	2.37
		11.2	11.23 *	03/01/05	6.95	4.28
		11.2	11.23 *	11/10/04	7.33	3.90
		11.2	11.23 *	06/14/04	7.30	3.93
		11.2	11.23 *	03/02/04	5.75	5.48
		11.2	11.23 *	12/03/03	6.09	5.14
		11.2	11.23 *	09/15/03	7.62	3.61
		11.2	11.23 *	06/24/03	7.38	3.85
		11.2	11.23 *	04/08/03	7.98	3.25
		11.2	11.23 *	12/10/02	7.11	4.12
		11.2	11.23 *	09/13/02	6.95	4.28
		11.2	11.23 *	07/01/02	8.81	2.42
Second	M025-C	8.4	7.97 *	04/17/06	3.48	4.49
		8.4	7.97 *	08/22/05	3.50	4.47
		8.4	7.97 *	03/01/05	3.08	4.89
		8.4	7.97 *	11/10/04	2.96	5.01
		8.4	7.97 *	06/14/04	3.34	4.63
		8.4	7.97 *	03/02/04	2.46	5.51
		8.4	7.97 *	12/03/03	3.18	4.79
		8.4	7.97 *	09/15/03	3.45	4.52
		8.4	7.97 *	06/24/03	3.35	4.62
		8.4	7.97 *	04/08/03	3.63	4.34
		8.4	7.97 *	12/10/02	3.43	4.54
		8.4	7.97 *	09/13/02	3.46	4.51
		8.4	7.97 *	07/01/02	3.60	4.37

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M025-E ‡	8.7	8.34	04/17/06	5.30	3.04
		8.7	8.34	08/22/05	5.83	2.51
		8.7	8.34	03/01/05	5.00	3.34
		8.7	8.34	11/10/04	NM	NC
		8.7	8.34	06/14/04	4.14	4.20
		8.7	8.34	09/13/02	4.97	3.37
Second	M027-B	9.8	9.33 *	04/17/06	5.18	4.15
		9.8	9.33 *	08/27/05	5.45	3.88
		9.8	9.33 *	03/01/05	4.80	4.53
		9.8	9.33 *	11/10/04	3.69	5.64
		9.8	9.33 *	06/14/04	4.67	4.66
		9.8	9.33 *	03/02/04	3.80	5.53
		9.8	9.33 *	12/03/03	4.10	5.23
		9.8	9.33 *	09/15/03	4.88	4.45
		9.8	9.33 *	06/24/03	4.69	4.64
		9.8	9.33 *	04/08/03	5.72	3.61
		9.8	9.33 *	12/10/02	5.00	4.33
		9.8	9.33 *	09/13/02	5.10	4.23
		9.8	9.33 *	07/02/02	6.18	3.15
Second	M027-C	9.5	8.92 *	04/17/06	4.5	4.42
		9.5	8.92 *	08/22/05	4.81	4.11
		9.5	8.92 *	03/01/05	4.22	4.70
		9.5	8.92 *	11/10/04	3.71	5.21
		9.5	8.92 *	06/14/04	4.63	4.29
		9.5	8.92 *	03/02/04	3.96	4.96
		9.5	8.92 *	12/03/03	4.12	4.80
		9.5	8.92 *	09/15/03	4.81	4.11
		9.5	8.92 *	06/24/03	4.68	4.24
		9.5	8.92 *	04/08/03	5.60	3.32
		9.5	8.92 *	12/10/02	4.78	4.14
		9.5	8.92 *	09/13/02	4.90	4.02
		9.5	8.92 *	07/02/02	5.60	3.32
Second	M028-C	10.9	10.86 *	04/17/06	7.23	3.63
		10.9	10.86 *	08/22/05	7.84	3.02
		10.9	10.86 *	03/01/05	7.04	3.82
		10.9	10.86 *	11/10/04	5.44	5.42
		10.9	10.86 *	06/14/04	6.75	4.11
		10.9	10.86 *	03/02/04	6.25	4.61
		10.9	10.86 *	12/03/03	6.21	4.65
		10.9	10.86 *	09/15/03	7.19	3.67
		10.9	10.86 *	06/24/03	6.66	4.20
		10.9	10.86 *	04/08/03	7.71	3.15
		10.9	10.86 *	12/10/02	6.65	4.21
		10.9	10.86 *	09/13/02	6.73	4.13
		10.9	10.86 *	07/02/02	7.81	3.05
Second	M030-C	10.3	10.41 *	04/11/06	6.13	4.28
		10.3	10.41 *	08/22/05	8.06	2.35
		10.3	10.41 *	03/01/05	6.58	3.83
		10.3	10.41 *	11/10/04	6.95	3.46
		10.3	10.41 *	06/14/04	7.23	3.18
		10.3	10.41 *	03/02/04	5.44	4.97
		10.3	10.41 *	12/03/03	5.73	4.68
		10.3	10.41 *	09/15/03	7.03	3.38
		10.3	10.41 *	06/24/03	6.69	3.72

Table 3-2
Summary of Groundwater Level Measurements at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M030-C	10.3	10.41 *	04/08/03	7.48	2.93
		10.3	10.41 *	12/10/02	6.60	3.81
		10.3	10.41 *	09/13/02	6.28	4.13
		10.3	10.41 *	07/15/02	7.86	2.55
Second	M031-C	9.00	8.87 *	04/11/06	3.95	4.92
		9.00	8.87 *	08/22/05	4.97	3.90
		9.00	8.87 *	03/01/05	4.50	4.37
		9.00	8.87 *	11/10/04	4.44	4.43
		9.00	8.87 *	06/14/04	4.92	3.95
		9.00	8.87 *	03/02/04	4.21	4.66
		9.00	8.87 *	12/03/03	4.67	4.20
		9.00	8.87 *	09/15/03	5.02	3.85
		9.00	8.87 *	06/24/03	5.03	3.84
		9.00	8.87 *	04/08/03	5.08	3.79
		9.00	8.87 *	12/10/02	4.93	3.94
		9.00	8.87 *	09/13/02	4.86	4.01
		9.00	8.87 *	07/02/02	5.28	3.59

Notes:

BTOC = below top of casing

msl = mean sea level

NC = Groundwater elevation not calculated

NF = Monitoring well not found

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	-	-	-	-	-	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	**0.40 J**	< 0.50	**0.20 J**	< 0.50	**0.10 J**	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**
		2004 02 (Summer)	-	-	-	-	-	**0.50**	< 0.50	**0.10 J**	< 0.50	**0.10 J**	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	**0.65**	< 1.0	**0.29 J**	< 1.0	**0.23 J**	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.37 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	**0.36 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.27 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	**0.80**	**0.10 J**	**0.30 J**	**0.20 J**	**0.20 J**	< 2.0	**0.10 J**	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**0.20 J**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M001-E	2006 01 (Spring)	-	-	-	-	-	**5.5**	**0.90**	**4.7**	**1.5**	**15.0**	**210**	< 0.50	**9.1**	**1.8**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**1.1**	**0.20 J**	< 0.50	< 0.50	< 0.50	**0.50**
		2005 02 (Summer)	-	-	-	-	-	**5.3**	**0.80 J**	**3.6**	**1.3 J**	**11.0**	**220**	< 1.7	**9.0**	**1.7**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	**1.1 J**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2005 01 (Spring)	-	-	-	-	-	**5.5**	**0.80**	**4.1**	**1.2**	**12.0**	**230**	< 0.50	**11.0**	**1.7**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	**6.1**	**1.0**	**3.6**	**1.4**	**11.0**	**270**	< 0.50	**9.1**	**2.0**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**
		2004 02 (Summer)	-	-	-	-	-	**5.2**	**0.80**	**3.7**	**1.5**	**12.0**	**230**	< 0.50	**9.8**	**1.8**	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**
		2004 01 (Spring)	-	-	-	-	-	**4.5**	**0.56 J**	**2.8**	**1.1**	**9.3**	**200**	< 5.0	**12.0**	**1.3**	< 1.0	**0.43 J**	< 1.0	< 1.0	< 1.0	**0.73 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	**4.5**	**0.79 J**	**2.7**	**1.3**	**9.1**	**200**	< 5.0	**7.7**	**1.4**	< 1.0	**0.41 J**	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	**6.1**	**1.0**	**3.8**	**1.8**	**13.0**	**210 J**	< 5.0	**10.0**	**2.1**	< 1.0	**0.50 J**	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0	< 0.50	< 1.0	**0.51**
		2003 02 (Summer)	-	-	-	-	-	**4.4**	**0.74 J**	**3.6**	**1.6**	**12.0**	**360**	< 5.0	**9.2**	**1.6**	< 1.0	**0.38 J**	< 1.0	< 1.0	< 1.0	**0.88 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.43 J**
		2003 01 (Spring)	-	-	-	-	-	**6.4**	**1.0**	**4.2**	**1.9**	**13.0**	**260**	< 0.50	**13.0**	**1.9**	< 0.50	**0.60**	< 0.50	< 0.50 UJ	< 0.50	**1.2**	**0.20 J**	< 0.50	< 0.50	< 0.50	**0.50**
		2002 04 (Winter)	-	-	-	-	-	**5.6**	**0.90**	**4.4**	**1.9**	**14.0**	**300**	< 0.50	**14.0**	**2.1**	< 0.50	**0.50**	< 0.50 J	< 0.50	< 0.50	**1.0**	**0.20 J**	< 0.50	< 0.50	< 0.50	**0.60**
		2002 03 (Fall)	-	-	-	-	-	**5.4**	**0.90**	**3.3**	**1.8**	**11.0**	**230**	< 0.50	**10.0**	**1.8**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	**140**	**140**	**4.9**	**0.80 J**	**2.9**	**1.3**	**8.4**	**210**	< 1.0	**10.0**	**1.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.90 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	M002-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22.0**	< 0.50	**17.0**	**0.70**	< 0.50	< 0.50	< 0.50	**0.80**
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.3**	< 0.50	**6.2**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24.0**	< 0.50	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11.0**	< 0.50	**6.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.8**	< 0.50	**4.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**12.0**	< 1.0	**7.0**	**0.42 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**25.0**	< 1.0	**7.2**	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**6.0**	< 1.0	**6.0**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**10.0**	< 1.0	**6.2**	**0.28 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**24.0 J**	< 0.50	**5.0**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	**39.0**	< 0.50	**15.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.1**	< 0.50	**7.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11.0**	< 0.50	**6.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M003-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**2.7**	< 0.50	< 0.50	**0.40 J**	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.32 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.33 J**	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.86 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.57 J**	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.50 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M004-A	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M005-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.20 J**
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.50**
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	**54.0 J**	< 50.0	**54.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M006-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**2.0**	**0.20 J**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	**54.0 J**	< 50.0	**54.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M007-A	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**3.8**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**5.3**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**4.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	**1.4 J**	< 1.0	**6.2**	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.44 J**	< 1.0 UJ	**5.2**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M007-A	2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**2.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M025-A	2006 01 (Spring)	-	-	-	-	-	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.70**	< 0.50	< 0.50	**0.10 J**	< 0.50	**1.3**
		2005 02 (Summer)	-	-	-	-	-	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**
		2004 04 (Winter)	-	-	-	-	-	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**1.0**	< 0.50	< 0.50	**0.30 J**	< 0.50	**1.6**
		2004 02 (Summer)	-	-	-	-	-	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**1.5**	**0.20 J**	< 0.50	**0.40 J**	< 0.50	**0.70**
		2003 04 (Winter)	-	-	-	-	-	**0.25 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.27 J**	< 1.0	**1.1**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	**0.52**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	< 0.50	**0.50 J**	< 0.50	< 0.50
	M026-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M026-E	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.50 J**	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.32 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M027-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.50**	< 0.50	**4.4**	**0.40 J**	< 0.50	**0.20 J**	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.20 J**	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.45 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.1**	**2.3**	< 1.0	**6.2**	**0.47 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.8**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50 UJ	< 0.50	**2.5**	**0.20 J**	< 0.50	**0.20 J**	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.50 J**	< 0.50	< 0.50 J	**0.50**	**0.70**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M027-E	2005 02 (Summer)	-	-	-	-	-	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**1.5**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.27 J**	< 1.0	**2.9**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.5**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M028-A	2005 02 (Summer)	-	-	-	-	-	**12.0**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**20.0**	**4.0**	**0.30 J**	**2.0**	< 0.50	**0.60**	< 0.50	**1.8**	< 0.50	**1.9**	< 0.50	< 0.50	**1.1**
		2005 01 (Spring)	-	-	-	-	-	**1.0 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	**3.1**	< 2.0	**180**	< 2.0	< 2.0	< 2.0	< 2.0	**300**
		2004 04 (Winter)	-	-	-	-	-	**21.0**	**45.0**	**8.5**	**23.0**	**8.6**	**5.1**	< 0.50	**32.0**	**4.4**	**0.40 J**	**3.2**	< 0.50	**0.90**	< 0.50	**20.0**	< 0.50	**6.8**	**0.30 J**	< 0.50	**260**
		2004 02 (Summer)	-	-	-	-	-	**14.0**	**0.60**	**1.4**	< 0.50	< 0.50	< 2.0	< 0.50	**34.0**	**7.3**	**0.40 J**	**3.9**	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	**2.4**	< 0.50	< 0.50	**1.0**
		2004 01 (Spring)	-	-	-	-	-	**1.9**	**0.23 J**	**0.25 J**	**0.42 J**	**0.46 J**	< 2.0	< 5.0	**1.6**	**0.44 J**	< 1.0	**0.25 J**	**0.28 J**	**2.1**	< 1.0	**100**	**0.25 J**	**0.92 J**	< 0.50	< 1.0	**100**
		2003 04 (Winter)	-	-	-	-	-	**6.3**	**10.0**	**5.8**	**20.0**	**9.6**	**8.3**	< 5.0	**17.0**	**3.0**	**0.34 J**	**2.4**	< 1.0	**1.1**	< 1.0	**13.0**	< 1.0	**1.7**	< 0.50	< 1.0	**5.1**
		2003 03 (Fall)	-	-	-	-	-	**50.0**	**18.0**	**21.0**	**58.0**	**32.0**	**16.0 J**	< 5.0	**85.0**	**9.6**	**0.84 J**	**6.2**	< 1.0	**0.42 J**	< 1.0	**1.8**	**0.22 J**	**19.0**	< 0.50	< 1.0	**2.3**
		2003 02 (Summer)	-	-	-	-	-	**12.0**	**0.94 J**	**1.2**	< 1.0	**0.23 J**	< 2.0	< 5.0	**26.0**	**6.3**	**0.38 J**	**2.7**	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0	**1.3**	< 0.50	< 1.0	**1.5**
		2003 01 (Spring)	-	-	-	-	-	**6.7**	**0.30 J**	**0.30 J**	**0.30 J**	**0.20 J**	< 2.0	< 0.50	**8.7**	**3.0**	**0.20 J**	**1.2**	**0.20 J**	**0.80 J**	< 0.50	**27.0**	**0.20 J**	**1.3**	< 0.50	< 0.50	**15.0**
		2002 04 (Winter)	-	-	-	-	-	< 0.50	**3.9**	**0.50 J**	**1.6**	**0.70**	**1.3 J**	< 0.50	**1.1**	**0.30 J**	< 0.50	< 0.50	**0.30 J**	**3.8**	< 0.50	**43.0**	< 0.50	**0.40 J**	< 0.50	< 0.50	**3.6**
		2002 03 (Fall)	-	-	-	-	-	**53.0**	**15.0**	**20.0**	**56.0**	**30.0**	**11.0**	< 0.50	**77.0**	**9.6**	**0.80**	**6.5**	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	**21.0**	**0.40 J**	< 0.50	**2.2**
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 150	< 300	**10.0**	**0.60**	**2.8**	**1.4**	**1.3**	< 2.0	< 0.50	**21.0**	**5.1**	**0.40 J**	**2.7**	< 0.50	< 0.50	< 0.50	**7.7**	< 0.50	**3.1**	< 0.50	< 0.50	**12.0**
	M028-E	2006 01 (Spring)	-	-	-	-	-	**32.0**	**190**	**34.0**	**38.0**	**30.0**	**17.0**	< 1.0	**63.0**	**22.0**	**1.0**	**8.3**	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	**6.1**	**0.10 J**	< 1.0	**190**
		2005 02 (Summer)	-	-	-	-	-	**37.0**	**690**	**44.0**	**130**	**57.0**	**42.0**	< 6.3	**100**	**30.0**	**1.4 J**	**11.0**	< 6.3	< 6.3	< 6.3	**330**	**3.2 J**	**16.0**	< 6.3	< 6.3	**5,000**
		2005 01 (Spring)	-	-	-	-	-	**44.0**	**380**	**35.0**	**67.0**	**45.0**	**15.0**	< 3.1	**70.0**	**21.0**	**0.70 J**	**8.3**	< 3.1	< 3.1	< 3.1	**70.0**	< 3.1	**12.0**	< 3.1	< 3.1	**3,000**
		2004 04 (Winter)	-	-	-	-	-	**85.0 J**	**2,400 J**	**77.0 J**	**220 J**	**110 J**	**56.0 J**	< 25.0	**64.0 J**	**53.0 J**	< 25.0	**14.0 J**	< 25.0	< 25.0	< 25.0	**3,500 J**	< 25.0	**32.0 J**	< 25.0	< 25.0	**22,000 J**
		2004 02 (Summer)	-	-	-	-	-	**56.0 J**	**1,400**	**59.0 J**	**210**	**80.0**	< 250 J	< 63.0	**100**	**58.0 J**	< 63.0	**16.0 J**	< 63.0	< 63.0	< 63.0	**4,900**	< 63.0	**18.0 J**	< 63.0	< 63.0	**13,000**
		2004 01 (Spring)	-	-	-	-	-	**66.0**	**1,700**	**53.0**	**150**	**82.0**	**32.0**	< 50.0	**73.0**	**42.0**	< 10.0	**10.0**	< 10.0	< 10.0	**5.5 J**	**6,700**	**11.0**	**23.0**	< 5.0	< 10.0	**20,000**
		2003 04 (Winter)	-	-	-	-	-	**59.0**	**1,400**	**70.0**	**1.9**	**120**	**64.0**	< 5.0	**66.0**	**36.0**	**1.4**	**0.30 J**	< 1.0	< 1.0	**6.8**	**3,900**	**30.0 J**	**24.0**	**3.1**	< 1.0	**9,400**
		2003 03 (Fall)	-	-	-	-	-	**64.0**	**1,400**	**61.0**	**230**	**100**	**74.0 J**	< 5.0	**110**	**42.0**	**1.2**	< 1.0	< 1.0	< 1.0	**5.1**	**4,500**	**23.0**	**22.0**	< 0.50	< 1.0	**12,000**
		2003 02 (Summer)	-	-	-	-	-	**66.0**	**1,200**	**80.0**	**300**	**140**	**100**	< 5.0	**150**	**59.0**	**1.5**	**14.0**	< 1.0	< 1.0	**0.71 J**	**880**	**3.4**	**25.0**	< 0.50	< 1.0	**8,300**
		2003 01 (Spring)	-	-	-	-	-	**85.0**	**2,800**	**59.0**	**220**	**100**	**39.0 J**	< 36.0	**60.0**	**65.0**	< 36.0	**12.0 J**	< 36.0	< 36.0 UJ	**34.0 J**	**14,000**	**20.0 J**	**35.0 J**	< 36.0	< 36.0	**35,000**
		2002 04 (Winter)	-	-	-	-	-	**66.0**	**1,400**	**72.0**	**240**	**110**	< 200	< 13.0	**66.0**	**53.0**	< 13.0	**13.0**	< 13.0	**13.0**	**4.9 J**	**6,400**	**8.5 J**	**18.0**	< 13.0	< 13.0	**11,000**
	M029-A	2006 01 (Spring)	-	-	-	-	-	**4.8**	< 0.50	**0.080 J**	**0.20 J**	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**0.20 J**	**0.10 J**	**0.20 J**	< 0.50	**0.30 J**
		2005 02 (Summer)	-	-	-	-	-	**1.8**	< 0.50	**0.080 J**	**0.10 J**	**0.10 J**	< 2.0	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	**0.30 J**	< 0.50	**0.20 J**	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	**2.9**	< 0.50	**0.090 J**	**0.10 J**	< 0.50	< 2.0	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	**3.7**	**0.20 J**	**0.10 J**	**0.30 J**	**0.10 J**	< 2.0	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	**0.40 J**	< 0.50	**0.30 J**	< 0.50	**0.40 J**
		2004 02 (Summer)	-	-	-	-	-	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	**2.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.47 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.25 J**	**0.20 J**	< 1.0	< 0.50	< 1.0	**0.50**
		2003 04 (Winter)	-	-	-	-	-	**2.0**	**0.20 J**	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.46 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.43 J**	**0.21 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	**2.2**	**0.60 J**	< 1.0	**0.35 J**	< 1.0	< 2.0	< 5.0	**0.55 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.84 J**	**0.25 J**	< 1.0	< 0.50	< 1.0	**2.7**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M029-A	2003 02 (Summer)	-	-	-	-	-	**1.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.30 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.28 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	**2.4**	**0.10 J**	**0.10 J**	**0.20 J**	< 0.50	< 2.0	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**0.40 J**	**0.30 J**	< 0.50	**0.20 J**	< 0.50	**0.40 J**
		2002 04 (Winter)	-	-	-	-	-	**3.0**	< 0.50	< 0.50	< 0.50	< 0.50 J	< 2.0	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	**0.30 J**	< 0.50	< 0.50 J	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 79.0	< 300	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50
	M029-E	2005 02 (Summer)	-	-	-	-	-	**0.50**	**0.60**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	**0.80**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	**0.60**	**0.30 J**	< 0.50	< 0.50	< 0.50	**0.40 J**
		2004 02 (Summer)	-	-	-	-	-	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	**0.95**	< 1.0	**0.20 J**	< 1.0	< 1.0	< 2.0	< 5.0	**0.40 J**	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	**0.45 J**	**0.24 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	**0.90**	< 1.0	**0.22 J**	< 1.0	**0.27 J**	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.36 J**	**0.36 J**	< 1.0	< 0.50	< 1.0	**0.48 J**
		2002 04 (Winter)	-	-	-	-	-	**1.0**	< 0.50	< 0.50 J	< 0.50	< 0.50 J	**1.0 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**0.30 J**	< 0.50	< 0.50	< 0.50	**0.60**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50
	M030-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	**0.24 J**	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0	< 1.0	< 0.50	< 1.0	**1.1**
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M031-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	**0.90**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.63 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	**0.27 J**	< 1.0	**0.60 J**	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.88 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.47 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M031-E	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.21 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M032-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	**0.40 J**	< 0.50	**0.40 J**
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	**0.80**	< 0.50	**0.70**
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	**0.90**	< 0.50	**0.90**
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	**0.60**	< 0.50	**0.70**
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0	**0.92**	< 1.0	**1.1**
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.79 J**	< 1.0	< 1.0	**0.67**	< 1.0	**0.74**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	**17.0 J**	**17.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	**0.80**	< 0.50	**1.1**
	M033-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	**0.80**	< 0.50	**1.0**
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.8**	**0.40 J**	< 0.50	**0.10 J**	< 0.50	**0.80**
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	**0.20 J**	< 0.50	**0.20 J**	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	< 0.50	< 0.50	**0.30 J**	< 0.50	**0.90**
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.5**	**0.49 J**	< 1.0	< 0.50	< 1.0	**1.1**
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**8.7**	**0.42 J**	< 1.0	**0.27 J**	< 1.0	**0.97**
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.2**	< 1.0	< 1.0	< 0.50	< 1.0	**1.4**
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.0**	**0.30 J**	< 1.0	< 0.50	< 1.0	**0.94**
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**2.5**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**16.0**	**0.80**	< 0.50	< 0.50	**1.7**
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 140	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.9**	**0.50 J**	< 0.50	**0.30 J**	< 0.50	**2.2**
	M034-A	2006 01 (Spring)	-	-	-	-	-	**19.0**	**1.9**	**7.3**	**23.0**	**3.2**	**8.6**	< 0.50	**11.0**	**4.8**	**0.70**	**2.9**	< 0.50	< 0.50	**0.20 J**	**1.2**	**0.50**	**0.30 J**	< 0.50	< 0.50	**2.2**
		2005 02 (Summer)	-	-	-	-	-	**21.0**	**0.80**	**0.60**	**2.7**	**0.30 J**	**0.90 J**	< 0.50	**14.0**	**1.3**	**0.80**	**2.5**	< 0.50	< 0.50	< 0.50	**0.20 J**	**0.30 J**	**0.30 J**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	**35.0**	**2.8**	**11.0**	**35.0**	**6.4**	**14.0**	< 0.50	**17.0**	**6.6**	**0.90**	**4.2**	< 0.50	< 0.50	**0.40 J**	**1.1**	**0.50**	**0.50**	< 0.50	< 0.50	**2.1**
		2004 04 (Winter)	-	-	-	-	-	**21.0**	**0.80**	**1.6**	**7.2**	**0.70**	**6.3**	< 0.50	**13.0**	**3.5**	**0.70**	**3.3**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.50**	< 0.50	< 0.50	**0.40 J**
		2004 02 (Summer)	-	-	-	-	-	**27.0**	**0.50**	**0.60**	**6.6**	**0.20 J**	**9.5**	< 0.50	**14.0**	**1.9**	**0.60**	**2.6**	< 0.50	< 0.50	< 0.50	**0.40 J**	**0.30 J**	**0.30 J**	< 0.50	< 0.50	**0.40 J**
		2004 01 (Spring)	-	-	-	-	-	**31.0**	**18.0**	**12.0**	**33.0**	**10.0**	**22.0**	< 5.0	**13.0**	**6.0**	**0.67 J**	**3.3**	< 1.0	< 1.0	**0.39 J**	**1.2**	**0.48 J**	**0.58 J**	< 0.50	< 1.0	**4.0**
		2003 04 (Winter)	-	-	-	-	-	**21.0**	**7.6**	**5.9**	**20.0**	**4.1**	**29.0**	< 5.0	**13.0**	**4.9**	**0.74 J**	**3.4**	< 1.0	< 1.0	**0.20 J**	**0.86 J**	**0.41 J**	**0.40 J**	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	**49.0**	**1.0**	**2.6**	**14.0**	**0.40 J**	**24.0**	< 5.0	**23.0**	**2.2**	**0.69 J**	**3.4**	< 1.0	< 1.0	< 1.0	< 1.0	**0.39 J**	**1.6**	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	**30.0**	**0.70 J**	**1.4**	**7.4**	**0.31 J**	**20.0**	< 5.0	**14.0**	**1.7**	**0.51 J**	**2.3**	< 1.0	< 1.0	< 1.0	**0.32 J**	**0.23 J**	**0.35 J**	< 0.50	< 1.0	**0.43 J**
		2003 01 (Spring)	-	-	-	-	-	**19.0**	**0.90**	**7.7**	**19.0**	**1.1**	**17.0 J**	< 0.50	**12.0**	**4.3**	**0.80**	**3.3**	< 0.50	< 0.50 UJ	< 0.50	**0.90**	**0.40 J**	< 0.50	< 0.50	< 0.50	**0.50**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons									
				TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M034-A	2002 04 (Winter)		-	-	-	-	-	**35.0**	**530**	**16.0**	**50.0**	**22.0**	**63.0**	< 1.0	**25.0**	**9.2**	**1.0**	**5.4**	< 1.0	**0.70 J**	**2.9**	**32.0**	**1.0 J**	**2.0**	< 1.0	< 1.0	**65.0**
		2002 03 (Fall)		-	-	-	-	-	**45.0**	**1.7**	**6.5**	**29.0**	**1.6**	**46.0**	< 0.50	**28.0**	**3.4**	**0.80**	**4.5**	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**2.2**	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		**46.0 J**	**190 J**	< 300 UJ	**490**	**726**	**30.0**	**1.2**	**4.0**	**10.0**	**0.40 J**	**82.0**	< 0.50	**13.0**	**2.6**	**0.60**	**2.6**	< 0.50	< 0.50	< 0.50	**0.40 J**	**0.30 J**	**0.50 J**	< 0.50	< 0.50	**0.50 J**
	M035-A	2006 01 (Spring)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**6.1**	< 0.50	**0.90**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	**4.3**	**0.20 J**	**3.8**	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**6.3**	< 0.50	**1.8**	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	**5.5**	**0.40 J**	**6.5**	**5.1**	< 0.50	**0.20 J**	< 0.50	**0.40 J**
		2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**5.0**	**0.20 J**	**3.5**	**2.5**	< 0.50	< 0.50	< 0.50	**0.40 J**
		2004 01 (Spring)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.29 J**	**5.0**	< 1.0	**1.9**	**1.5**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.9**	**0.34 J**	**5.9**	**3.1 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.6**	**0.33 J**	**5.5**	**3.8**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.9**	**0.35 J**	**3.9**	**2.9**	< 1.0	< 0.50	< 1.0	**0.44 J**
		2003 01 (Spring)		-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.40 J**	**6.8 J**	**0.40 J**	**3.9 J**	**2.4 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50 J	< 0.50	**0.40 J**	**1.9 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	**7.2**	< 0.50	**2.7**	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.2**	**0.50**	**5.5**	**3.8**	< 0.50	< 0.50	< 0.50	**0.50 J**
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	**6.5**	**0.50 J**	**4.9**	**2.9**	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	M001-B	2006 01 (Spring)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)		-	-	-	-	-	**0.74**	< 1.0	**0.20 J**	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.25 J**	< 1.0	< 1.0	**0.49 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	**3.3**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**1.4**	< 0.50
	M003-B	2006 01 (Spring)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M025-C	2006 01 (Spring)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	**1.0**	**150**	**300**	**1,750**	**1,750**	NA	**13.0**	**70.0**	**600**	NA	**5.0**	**5.0**	**5.0**	**6.0**	**6.0**	**10.0**	**5.0**	**0.50**	**200**	**0.50**
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M025-C	2002 04 (Winter)	-	-	-	-	-	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M027-B	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0 J**	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M027-C	2006 01 (Spring)	-	-	-	-	-	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M028-C	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M030-C	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 3-3

Groundwater Sample Analytical Results at IR Sites 1 and 32: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
				TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:		**NA**	**NA**	**NA**	**NA**	**NA**	**1.0**	**150**	**300**	**1,750**	**1,750**	**NA**	**13.0**	**70.0**	**600**	**NA**	**5.0**	**5.0**	**5.0**	**6.0**	**6.0**	**10.0**	**5.0**	**0.50**	**200**	**0.50**
		BV:		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
SWBZ	M030-C	2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M031-C	2006 01 (Spring)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	**0.52 J**	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	**1.9 J**	< 9.6
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	**1.7 J**	**1.1 J**	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	**0.99 J**	< 9.7	< 9.7
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
	M001-E	2006 01 (Spring)	**6.8 J**	**0.50 J**	< 9.6	< 9.6	< 9.6	< 9.6	**0.62 J**	**2.8 J**	< 9.6	**240**	**2.3 J**	< 9.6	< 48.0	< 9.6	**1.2 J**	**3.5 J**	< 9.6
		2005 02 (Summer)	**4.2 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**1.6 J**	< 9.5	< 9.5	**1.2 J**	< 9.5	< 48.0	< 9.5	**0.93 J**	**2.2 J**	< 9.5
		2005 01 (Spring)	**4.3 J**	**0.35 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**1.6 J**	< 9.6	< 9.6	**1.4 J**	< 9.6	< 48.0	< 9.6	**1.1 J**	**3.4 J**	< 9.6
		2004 04 (Winter)	**4.7 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**1.2 J**	< 9.6	< 9.6	**0.88 J**	< 9.6	< 48.0	< 9.6	< 9.6	**2.7 J**	< 9.6
		2004 02 (Summer)	**4.6 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.6 J**	< 9.4	**160**	**1.4 J**	< 9.4	< 47.0	< 9.4	**0.89 J**	**3.1 J**	< 9.4
		2004 01 (Spring)	**4.7 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**100**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 01 (Spring)	**5.8 J**	**0.55 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**2.2 J**	< 9.5	**130**	**2.0 J**	< 9.5	< 48.0	< 9.5	**1.1 J**	**3.1 J**	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-E	2002 04 (Winter)	**5.9 J**	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	**2.3 J**	< 9.6 UJ	**230**	**2.1 J**	< 9.6	< 48.0	< 9.6	**0.97 J**	**2.8 J**	< 9.6
		2002 03 (Fall)	**1.3 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	**2.8 J**	< 9.4
		2002 02 (Summer)	**1.5 J**	**1.5 J**	< 9.4	< 9.4	< 9.4	< 9.4	**1.5 J**	< 9.4	< 9.4	**4.1 J**	**1.2 J**	< 9.4	< 47.0	< 9.4	**0.94 J**	< 9.4	< 9.4
	M002-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
	M003-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7 UJ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M003-A	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
	M004-A	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
	M006-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	**19.0 J**	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
	M007-A	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6 UJ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M007-A	2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 J	< 9.8 J	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 49.0 J	< 9.8	< 9.8	< 9.8	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M025-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M026-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M026-A	2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4 J	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
	M026-E	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4 J	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
	M027-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M027-A	2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M028-A	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	**0.60 J**	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	**4.9 J**	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	**2.0 J**	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4 UJ
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**10.0**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	**8.4 J**	< 14.0	< 14.0	< 72.0	< 14.0	< 14.0	**1.9 J**	< 14.0
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
	M028-E	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**17.0**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	< 47.0	**52.0**	< 47.0	< 47.0	< 240	< 47.0	< 47.0	< 47.0	< 47.0
		2005 01 (Spring)	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**15.0 J**	< 50.0	< 50.0	< 250	< 50.0	< 50.0	< 50.0	< 50.0
		2004 04 (Winter)	< 190	< 190	< 190	< 190	< 190	< 190	< 190	< 190	< 190	**70.0 J**	< 190	< 190	< 970	< 190	< 190	< 190	< 190
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**2.5 J**	< 9.5	**59.0**	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**35.0**	< 10.0	**11.0**	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**29.0**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-E	2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**63.0**	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**49.0**	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	< 95.0	**56.0 J**	< 95.0	< 95.0	< 480	< 95.0	< 95.0	< 95.0	< 95.0
		2002 04 (Winter)	< 240	< 240	< 240	< 240	< 240	< 240	< 240	< 240	< 240	**64.0 J**	< 240	< 240	**1,600 J**	< 240	< 240	< 240	< 240
	M029-A	2006 01 (Spring)	**2.2 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	**1.0 J**	< 9.4
		2005 02 (Summer)	**4.9 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**0.66 J**	< 9.5	< 9.5	**0.89 J**	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	**3.4 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**0.27 J**	< 9.5	**0.49 J**	**1.0 J**	< 9.5
		2004 04 (Winter)	**5.2 J**	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	**0.88 J**	< 11.0	< 56.0	< 11.0	< 11.0	< 11.0	< 11.0
		2004 02 (Summer)	**5.5 J**	**1.3 J**	< 9.9	< 9.9	< 9.9 UJ	< 9.9 UJ	< 9.9	< 9.9 UJ	< 9.9 UJ	< 9.9	**1.2 J**	< 9.9	< 50.0	< 9.9	< 9.9	**2.2 J**	< 9.9
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	**5.8**	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 03 (Fall)	**6.1 J**	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	**5.8 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	**5.5 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.3 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	**1.5 J**	< 9.4
		2002 04 (Winter)	**6.0 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.4 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	**1.2 J**	< 9.4
		2002 03 (Fall)	**6.6 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**1.4 J**	< 9.6	< 9.6	**0.88 J**	< 9.6	< 48.0	< 9.6	< 9.6	**1.9 J**	< 9.6
		2002 02 (Summer)	**4.1 J**	**1.4 J**	< 9.4	< 9.4	< 9.4	< 9.4	**1.3 J**	**0.75 J**	< 9.4	< 9.4	**0.96 J**	< 9.4	< 47.0	< 9.4	**1.2 J**	**1.9 J**	< 9.4
	M029-E	2005 02 (Summer)	**1.4 J**	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	**0.60 J**	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 04 (Winter)	**2.0 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**0.90 J**	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	**1.9 J**	**1.4 J**	< 11.0	< 11.0	< 11.0 UJ	< 11.0 UJ	**2.5 J**	< 11.0 UJ	< 11.0 UJ	< 11.0	**1.3 J**	< 11.0	< 56.0	< 11.0	< 11.0	**2.0 J**	< 11.0
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M029-E	2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	**1.1 J**	**1.4 J**	< 9.4	< 9.4	< 9.4	< 9.4	**1.6 J**	< 9.4	< 9.4	**4.1 J**	**0.99 J**	< 9.4	< 47.0	< 9.4	**0.79 J**	< 9.4	< 9.4
	M030-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**0.47 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 J	< 9.7 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	< 9.7
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5 UJ
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M031-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**19.0 J**	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M031-A	2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M032-A	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**0.68 J**	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**0.73 J**	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**19.0 J**	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.2 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M033-A	2006 01 (Spring)	**0.57 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	**0.53 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	**1.8 J**	< 10.0
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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Table

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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M033-A	2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	**0.78 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	**1.0 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M034-A	2006 01 (Spring)	**2.0 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**1.1 J**	< 9.6	**13.0**	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	**2.0 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**0.93 J**	< 9.4	**1.1 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	**3.6 J**	< 9.4
		2005 01 (Spring)	**2.3 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**0.92 J**	< 10.0	**9.9 J**	< 10.0	< 10.0	**5.2 J**	< 10.0	< 10.0	**2.2 J**	< 10.0
		2004 04 (Winter)	**1.9 J**	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	**3.7 J**	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	**6.0 J**	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	**2.6 J**	< 9.9
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 9.8	**20.0**	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 03 (Fall)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**15.0**	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**13.0**	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	**1.4 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**18.0**	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	**1.7 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**50.0**	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	**1.9 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**0.85 J**	< 9.6	**32.0**	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	**1.9 J**	< 9.6
		2002 02 (Summer)	**3.4 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**59.0**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	**1.8 J**	< 9.4
	M035-A	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0 UJ	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**19.0 J**	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

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		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M035-A	2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
SWBZ	M001-B	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M003-B	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M025-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8 UJ	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M027-B	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M027-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M027-C	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
	M028-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5 UJ	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M030-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M030-C	2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
SWBZ	M031-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
SWBZ	M031-C	2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
SWBZ	M031-C	2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 J	< 9.8 J	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 49.0 J	< 9.8	< 9.8	< 9.8	< 9.8
SWBZ	M031-C	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 9.5
SWBZ	M031-C	2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
SWBZ	M031-C	2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
SWBZ	M031-C	2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

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Summer 2002 through Spring 2006
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			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M001-E	2006 01 (Spring)	**1.8 J**	**1.5 J**	< 9.6	< 9.6	**0.67 J**	< 9.6	**1.8 J**	< 9.6	**8.9 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	**1.0 J**	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	**2.3 J**	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.6	**1.1 J**	< 9.6	< 9.6	< 19.0	< 9.6	**1.5 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	**2.4 J**	< 19.0	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	**3.9 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.4	**1.3 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	**5.0 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 01 (Spring)	**1.4 J**	**1.5 J**	< 9.5	**0.39 J**	< 19.0	< 9.5	**3.6 J**	< 9.5	**7.1 J**	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-E	2002 04 (Winter)	**1.4 J**	**1.5 J**	< 9.6	< 9.6	< 19.0	< 9.6	**3.3 J**	< 9.6 UJ	**6.6 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	**2.7 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	**0.96 J**	**1.2 J**	< 9.4	< 9.4	< 19.0	< 9.4	**2.2 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M002-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M003-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M003-A	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M004-A	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	**0.48 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
	M006-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
	M007-A	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M007-A	2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0 J	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M025-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	**7.1 J**	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M026-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M026-A	2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
	M026-E	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M027-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0 J	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M027-A	2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M028-A	2005 02 (Summer)	< 9.6	**3.9 J**	< 9.6	**2.3 J**	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.8	**3.6 J**	< 9.8	**2.6 J**	< 20.0	< 9.8	**140**	< 9.8	< 9.8	**3.2 J**	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.5 UJ	**5.2 J**	< 9.5	**3.0 J**	< 19.0 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	**57.0**	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.4	**6.0 J**	< 9.4	< 9.4	< 19.0	< 9.4	**710**	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	**2.4 J**	< 9.4	**0.95 J**	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 03 (Fall)	< 14.0	**7.3 J**	< 14.0	**4.9 J**	< 29.0	< 14.0	**290**	< 14.0	< 14.0	**4.6 J**	< 14.0	< 29.0	< 14.0	< 29.0	< 14.0
		2002 02 (Summer)	< 9.7	**3.2 J**	< 9.7	**1.6 J**	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M028-E	2006 01 (Spring)	< 9.4	**17.0**	**0.79 J**	**6.9 J**	< 19.0	**1.1 J**	**210**	< 9.4	< 9.4	**3.8 J**	**1.1 J**	< 19.0	< 9.4	**1.0 J**	**0.90 J**
		2005 02 (Summer)	< 47.0	**28.0 J**	< 47.0	**11.0 J**	< 94.0	**3.2 J**	**1,000**	< 47.0	< 47.0	**140**	< 47.0	< 94.0	< 47.0	< 94.0	< 47.0
		2005 01 (Spring)	< 50.0	**22.0 J**	< 50.0	**7.9 J**	< 99.0	**2.1 J**	**540**	< 50.0	< 50.0	**72.0**	< 50.0	< 99.0	< 50.0	< 99.0	< 50.0
		2004 04 (Winter)	< 190	**55.0 J**	< 190	**12.0 J**	< 390	**11.0 J**	**3,400**	< 190	< 190	**390**	< 190	< 390	< 190	< 390	< 190
		2004 02 (Summer)	< 9.5	**38.0**	**1.3 J**	**13.0**	< 19.0	**6.0 J**	**1,800**	**0.44 J**	**1.7 J**	**200**	**4.6 J**	< 19.0	< 9.5	**14.0 J**	**1.2 J**
		2004 01 (Spring)	< 10.0	**39.0**	< 10.0	**9.7 J**	< 20.0	< 10.0	**1,400**	< 10.0	< 10.0	**370**	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 04 (Winter)	< 9.4	**27.0**	< 9.4	**7.6 J**	< 19.0	**9.0 J**	**2,200**	< 9.4	< 9.4	**350**	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-E	2003 03 (Fall)	< 9.5	**33.0**	< 9.5	**8.6 J**	< 19.0	**6.7 J**	**2,400**	< 9.5	< 9.5	**320**	**5.7 J**	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	**40.0**	< 9.5	**9.0 J**	< 19.0	**5.8 J**	**1,600**	< 9.5	< 9.5	**170 J**	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 95.0	**80.0 J**	< 95.0	**13.0 J**	< 190	**12.0 J**	**3,900**	< 95.0	< 95.0	**850**	< 95.0	< 190	< 95.0	< 190	< 95.0
		2002 04 (Winter)	< 240	< 240	< 240	< 240	< 490	< 240	**2,200**	< 240 UJ	< 240	**410**	**38.0 J**	< 490	< 240	< 490 UJ	< 240
	M029-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 11.0	< 11.0	< 11.0	< 11.0	< 22.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 11.0	< 22.0	< 11.0	< 22.0	< 11.0
		2004 02 (Summer)	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 20.0 UJ	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	**0.80 J**	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	**1.2 J**	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M029-E	2005 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 11.0 UJ	< 11.0	< 11.0	< 11.0	< 22.0 UJ	< 11.0	< 11.0	< 11.0 UJ	< 11.0	< 11.0	< 11.0	< 22.0	< 11.0	< 22.0	< 11.0
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M029-E	2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	**0.89 J**	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M030-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 J	< 9.7
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M031-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0 UJ	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M031-A	2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M032-A	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M033-A	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0 UJ	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	< 10.0	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M033-A	2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	**2.7 J**	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M034-A	2006 01 (Spring)	**1.0 J**	**5.0 J**	**0.58 J**	**2.6 J**	< 19.0	< 9.6	**2.5 J**	< 9.6	**6.2 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	**0.88 J**
		2005 02 (Summer)	**0.85 J**	**0.92 J**	< 9.4	**1.6 J**	< 19.0	< 9.4	< 9.4	< 9.4	**4.7 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**1.3 J**
		2005 01 (Spring)	< 10.0	**4.9 J**	< 10.0	**2.9 J**	< 20.0 UJ	< 10.0	< 10.0	< 10.0	**5.8 J**	< 10.0	< 10.0	-	< 10.0	< 20.0	**0.84 J**
		2004 04 (Winter)	< 9.8	**2.4 J**	< 9.8	**2.5 J**	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.9	**1.2 J**	< 9.9	**1.7 J**	< 20.0	< 9.9	< 9.9	< 9.9	**5.1 J**	< 9.9	< 9.9	< 20.0	< 9.9	**7.9 J**	< 9.9
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	**6.5 J**	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	**5.1 J**	< 10.0	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	**7.6 J**	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.5	**3.3 J**	**0.58 J**	**2.6 J**	< 19.0 UJ	< 9.5	< 9.5	< 9.5	**5.1 J**	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 19.0 UJ	< 9.5
		2002 04 (Winter)	**0.63 J**	**4.0 J**	< 9.4	**5.0 J**	< 19.0	< 9.4	**25.0**	< 9.4 UJ	**7.8 J**	**1.4 J**	**2.9 J**	< 19.0	< 9.4	< 19.0 UJ	**1.9 J**
		2002 03 (Fall)	< 9.6	**2.5 J**	**0.57 J**	**3.2 J**	< 19.0	< 9.6	< 9.6	< 9.6	**6.7 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	**1.4 J**	**1.9 J**	< 9.4	**1.8 J**	< 19.0	< 9.4	< 9.4	< 9.4	**3.8 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M035-A	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0 UJ	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	-	< 9.7	< 19.0 UJ	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M035-A	2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
SWBZ	M001-B	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M003-B	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M025-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0 UJ	< 9.5
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0 J	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M027-B	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M027-C	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M027-C	2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M028-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	-	< 9.6	< 19.0 UJ	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M030-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Sites 1 and 32: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M030-C	2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M031-C	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0 J	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	< 9.8	< 20.0 J	< 9.8	< 20.0 J	< 9.8
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M001-A	2006 01 (Spring)	**17.0**	2.8 J	48.0	< 2.0	0.96 J	**4.7 J**	< 1.0	**20.0**	< 3.0	1.7 J	< 0.20	**9.3 J**	2.4 J	**2.2 J**	< 5.0	**2.4 J**	**11.0**	**59.0**	< 100	< 100	130	11.0	8.7	16.0	< 0.010
		2005 02 (Summer)	0.94 J	2.3 J	89.0	0.11 J	0.16 J	< 10.0	0.36 J	0.69 J	0.47 J	84.0	< 0.20	3.4 J	4.1 J	1.2 J	0.078 J	**4.4 J**	1.1 J	5.9 J	< 100	680	51.0	17.0	20.0 J	200	< 0.010
		2005 01 (Spring)	6.9	< 5.0	76.0	0.35 J	0.65 J	< 10.0	< 1.0	**7.6 J**	1.3 J	76.0	< 0.20	3.7 J	4.2 J	< 5.0	< 5.0	< 5.0	5.5 J	**44.0**	< 100	< 100	91.0	12.0	12.0	85.0	< 0.010
		2004 04 (Winter)	0.40 J	2.3 J	**170**	< 2.0	< 5.0	0.47 J	0.24 J	0.98 J	0.39 J	140	< 0.20	2.2 J	1.6 J	**3.7 J**	< 5.0	1.0 J	0.84 J	6.3 J	3.1 J	1,100	56.0 J	24.0 J	23.0	200	< 0.010
		2004 02 (Summer)	0.53 J	1.8	**180**	< 1.0	< 1.0	< 10.0	0.17 J	1.6	0.32 J	100	< 0.20	< 5.0	1.9	< 1.0	< 1.0	0.54 J	< 10.0	**16.0 J**	< 50.0	540	47.0	22.0	20.0	220	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	**153**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	121	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	9.9 J	< 200	316	73.0	22.6	19.1 J	139	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	**197**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	288	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	1,310	57.4	29.4	27.2	235	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	**157**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	98.0	< 0.40	< 50.0	< 20.0	< 20.0	< 100	< 5.0	< 50.0	< 20.0	< 200	671	38.2	24.9	20.6 J	284 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	**291**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	183	< 0.40	< 50.0	1.7 J	< 20.0	< 10.0	< 5.0	< 50.0	3.2 J	< 200	818	59.1	26.2	28.9	180 J	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	**250**	< 2.0	< 5.0	< 10.0	< 10.0	4.9 J	< 3.0	210	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	8.8 J	6.4 J	920	67.0	26.0	17.0 J	130	< 0.010
		2002 04 (Winter)	10.0 J	< 5.0	78.0	< 2.0	0.87 J	< 10.0	0.18 J	**13.0**	0.55 J	28.0	< 0.20	**6.9 J**	4.2 J	0.91 J	< 5.0	< 2.0	8.4 J	**33.0 J**	4.9 J	420	89.0	13.0	12.0	57.0	< 0.010
		2002 03 (Fall)	0.40 J	< 5.0	120	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	39.0	< 0.20	2.4 J	< 20.0	0.62 J	< 5.0	< 2.0	< 10.0	< 20.0	< 100	230	25.0	26.0	30.0	370	< 0.010
		2002 02 (Summer)	0.38 J	1.3 J	**160**	0.025 J	< 5.0	0.46 J	0.16 J	0.51 J	0.42 J	92.0	< 0.20	< 20.0	0.83 J	1.0 J	< 5.0 UJ	< 2.0	0.59 J	< 20.0	8.5 J	300	47.0	26.0 J	25.0	270	0.010 J
	M001-E	2006 01 (Spring)	2.1	4.1 J	**130**	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	< 3.0	37.0	< 0.20	**6.7 J**	< 20.0	< 5.0	< 5.0	2.2 J	1.5 J	4.1 J	< 100	210	5.9	7.0	44.0	540	< 0.010
		2005 02 (Summer)	2.8	2.6 J	**130**	< 2.0	< 5.0	< 10.0	0.21 J	0.37 J	0.29 J	43.0	< 0.20	**5.7 J**	1.9 J	1.2 J	< 5.0	0.60 J	0.83 J	**13.0 J**	< 100	250	6.2	6.6	40.0 J	490	< 0.010
		2005 01 (Spring)	3.0	3.8 J	**140**	0.30 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	43.0	< 0.20	5.1 J	< 20.0	< 5.0	< 5.0	< 5.0	0.77 J	**22.0**	**99.0 J**	200	5.4	5.4	44.0	550	< 0.010
		2004 04 (Winter)	2.4	2.7 J	120	< 2.0	< 5.0	0.81 J	0.15 J	0.34 J	0.24 J	31.0	< 0.20	5.6 J	1.0 J	1.2 J	< 5.0	0.24 J	1.7 J	**12.0 J**	11.0 J	140	5.2	5.6	43.0	530	< 0.010
		2004 02 (Summer)	2.9	1.0	**130**	< 1.0	< 1.0	< 10.0	0.18 J	2.6	0.17 J	34.0	< 0.20	**5.7**	1.6	< 1.0	< 1.0	< 1.0	< 10.0	6.3 J	< 50.0	150	5.1	5.1	43.0	480	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	**129**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	40.3	< 0.40	**10.3 J**	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	**30.5**	< 200	168	6.2	7.2	44.3 J	519	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	49.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6,760**	< 0.40	**18.8 J**	**11.6 J**	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	64.8 J	**482**	963	137	5,320	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	**126**	< 4.0	< 5.0	< 10.0	< 10.0	2.8 J	< 10.0	35.7	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.6 J	< 20.0	< 200	181	5.5	5.8	39.8 J	489 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	122	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	35.6	< 0.40	5.2 J	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	33.8 J	204	5.3	5.4	36.5 J	470	< 0.10
		2003 01 (Spring)	3.3	< 5.0	**130**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	38.0	< 0.20	5.4 J	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	5.8 J	11.0 J	240	5.9	6.1	44.0 J	590	< 0.010
		2002 04 (Winter)	3.1 J	3.3 J	**140**	< 2.0	< 5.0	< 10.0	0.20 J	0.60 J	0.79 J	34.0	< 0.20	5.2 J	1.4 J	< 5.0	< 5.0	< 2.0	4.0 J	7.0 J	20.0 J	< 260	5.2 J	5.0	39.0	490	< 0.010
		2002 03 (Fall)	2.4 J	< 5.0 UJ	120	< 2.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 3.0	31.0 J	< 0.20	5.0 J	< 20.0 UJ	1.4 J	< 5.0	< 2.0	< 10.0 UJ	< 20.0 UJ	< 100 UJ	160 J	7.7 J	5.5 J	46.0	560	< 0.010
		2002 02 (Summer)	1.8 J	1.3 J	110	0.077 J	< 5.0	0.88 J	0.21 J	0.29 J	0.64 J	32.0 J	< 0.20	< 20.0	0.76 J	1.7 J	< 5.0 UJ	< 2.0	1.2 J	< 20.0	10.0 J	160	5.8	4.8 J	46.0	580	0.050
	M002-A	2006 01 (Spring)	0.66 J	< 5.0	28.0	< 2.0	< 5.0	1.5 J	0.15 J	< 10.0	< 3.0	15.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.2 J	2.1 J	< 100	< 100	91.0 J	19.0 J	8.2 J	95.0 J	< 0.010
		2005 02 (Summer)	0.29 J	2.7 J	**140**	< 2.0	< 5.0	< 10.0	2.0	1.5 J	0.30 J	140	< 0.20	1.5 J	4.4 J	1.4 J	< 5.0	< 5.0	2.0 J	6.8 J	< 100	840	280	63.0	26.0	280	< 0.010
		2005 01 (Spring)	0.52 J	< 5.0	81.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	47.0	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 5.0	1.5 J	**14.0 J**	86.0 J	< 100	150	45.0	15.0	280	< 0.010
		2004 04 (Winter)	0.42 J	2.7 J	79.0	< 2.0	< 5.0	1.0 J	0.41 J	2.8 J	0.34 J	64.0	< 0.20	2.4 J	**10.0 J**	**4.7 J**	< 5.0	< 5.0	2.9 J	8.5 J	17.0 J	370	170 J	41.0 J	19.0	310	< 0.010
		2004 02 (Summer)	< 1.0	2.7	96.0	< 1.0	< 1.0	< 10.0	1.1	2.1	0.080 J	75.0	< 0.20	< 5.0	3.8	0.99 J	< 1.0	< 1.0	< 10.0	6.1 J	< 50.0	530	190	39.0	22.0	340	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	86.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	97.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	213	48.6	17.2 J	305	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	31.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	19.2	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	5.3 J	< 200	< 100	124	21.6	12.6	35.3	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	**125**	< 4.0	< 5.0	< 10.0	< 10.0	1.6 J	< 10.0	188	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	184	300	74.0	25.8 J	478 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	102 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	140 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	145 J	202	52.0	29.5 J	188 J	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	58.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	77.0	< 0.20	< 20.0	2.7 J	< 5.0	< 5.0	< 1.0	2.2 J	6.4 J	16.0 J	270	130	31.0	16.0 J	180	< 0.010
		2002 04 (Winter)	0.59 J	2.8 J	64.0	< 2.0	< 5.0	< 10.0	0.57 J	2.4 J	0.098 J	30.0	< 0.20	3.0 J	3.1 J	1.6 J	< 5.0	< 2.0	3.3 J	3.5 J	4.7 J	720	130	22.0	12.0	240	< 0.010
		2002 03 (Fall)	0.41 J	< 5.0	110	< 2.0	< 5.0	< 10.0	1.0 J	< 10.0	< 3.0	110	< 0.20	1.4 J	4.1 J	1.4 J	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	900	250	46.0	25.0	250	< 0.010

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
M002-A	2002 02 (Summer)		0.29 J	2.6 J	60.0	< 2.0	< 5.0	< 10.0	0.69 J	1.3 J	< 3.0	57.0	< 0.20	2.0 J	2.7 J	1.1 J	< 5.0	< 2.0	< 10.0	0.73 J	8.2 J	390	160	26.0 J	15.0	220	< 0.010
M003-A	2006 01 (Spring)		1.5	**13.0**	100	< 2.0	< 5.0	< 10.0	0.70 J	< 10.0	< 3.0	< 10.0	< 0.20	4.8 J	< 20.0	< 5.0	**1.9 J**	< 5.0	**15.0**	< 20.0	< 100	< 100	110	12.0	2.2	12.0	< 0.010
	2005 02 (Summer)		0.23 J	1.4 J	28.0	< 2.0	< 5.0	< 10.0	0.67 J	0.77 J	< 3.0	6.3 J	< 0.20	4.4 J	2.3 J	1.0 J	< 5.0	< 5.0	2.1 J	**12.0 J**	< 100	350	100	9.5	3.7 J	11.0	< 0.010
	2005 01 (Spring)		0.58 J	4.0 J	66.0	< 2.0	< 5.0	< 10.0	1.5	< 10.0	< 3.0	27.0	< 0.20	3.8 J	2.2 J	< 5.0	< 5.0	< 5.0	4.6 J	10.0 J	< 100	< 100	120	10.0	2.9	11.0	< 0.010
	2004 04 (Winter)		0.26 J	6.9	30.0	< 2.0	< 5.0	0.24 J	0.99 J	0.59 J	0.12 J	46.0	< 0.20	3.2 J	1.0 J	< 5.0	< 5.0	< 5.0	1.5 J	**18.0 J**	18.0 J	540	71.0 J	9.2 J	6.6	23.0	< 0.010
	2004 02 (Summer)		0.40 J	3.2	60.0	< 1.0	< 1.0	< 1.0	1.2	0.53 J	< 1.0	27.0	< 0.20	< 5.0	1.8	< 1.0	< 1.0	< 1.0	**13.0**	< 1.3	< 50.0	190	100	11.0	4.7	14.0	< 0.010
	2004 01 (Spring)		< 5.0	6.7 J	64.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	48.1	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	536	89.6	11.3	6.0 J	15.3	< 0.10
	2003 04 (Winter)		< 5.0	6.4 J	44.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	108	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	214	63.2	12.2	6.2	23.4	< 0.10
	2003 03 (Fall)		< 5.0 UJ	6.9 J	33.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	15.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.8 J	< 20.0	< 200	666	120	10.2	3.4 J	10.6 J	< 0.10
	2003 02 (Summer)		< 50.0	7.7 J	31.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	42.3	< 0.40	**5.6 J**	< 20.0	< 20.0	< 10.0	< 5.0	1.3 J	2.4 J	< 200	556	104	9.3	3.2	11.5 J	< 0.10
	2003 01 (Spring)		< 1.0	**19.0**	44.0	< 2.0	< 5.0	< 10.0	1.0 J	3.0 J	< 3.0	67.0	< 0.20	3.4 J	1.2 J	< 5.0	< 5.0	< 1.0	1.4 J	3.1 J	< 100	**2,100**	110	8.7	3.0	13.0	< 0.010
	2002 04 (Winter)		< 50.0	5.9	89.0	< 2.0	< 5.0	< 10.0	0.87 J	0.59 J	0.037 J	13.0	< 0.20	4.6 J	2.3 J	0.66 J	< 5.0	< 2.0	**10.0**	0.94 J	< 100	600	130	9.8	1.8	14.0	< 0.010
	2002 03 (Fall)		0.34 J	3.0 J	33.0	< 2.0	< 5.0	< 10.0	**6.1 J**	0.42 J	0.062 J	100	< 0.20	5.1 J	4.6 J	< 5.0	< 5.0	< 2.0	2.9 J	**91.0**	< 100	1,400	120	9.9	3.9	8.9	0.010
	2002 02 (Summer)		0.22 J	< 5.0	30.0	< 2.0	< 5.0	1.0 J	0.97 J	0.25 J	< 3.0	40.0	< 0.20	4.7 J	1.6 J	< 5.0	< 5.0	< 2.0	2.3 J	3.4 J	6.0 J	570	120	9.0	3.5	9.9	< 0.010
M004-A	2005 02 (Summer)		0.52 J	5.1	14.0	< 2.0	< 5.0	< 10.0	0.81 J	1.2 J	< 3.0	84.0	< 0.20	3.9 J	2.3 J	1.1 J	< 5.0	< 5.0	4.2 J	5.8 J	< 100	220	58.0	26.0	20.0	150	< 0.010
	2004 04 (Winter)		0.41 J	6.0	14.0 J	< 2.0	< 5.0	< 10.0	0.78 J	0.88 J	0.21 J	80.0	< 0.20	2.9 J	2.1 J	< 5.0	< 5.0	< 5.0	3.8 J	1.8 J	< 100	170	61.0	26.0	22.0	170	< 0.010
	2004 02 (Summer)		0.54 J	5.4	14.0	< 1.0	< 1.0	< 1.0	0.93 J	1.0	< 1.0	110	< 0.20	3.8 J	1.7	< 1.0	< 1.0	< 1.0	5.7 J	4.3	< 50.0	160	72.0	29.0	21.0	180	< 0.010
	2003 04 (Winter)		< 5.0	< 50.0	16.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	125	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	7.9 J	< 200	224	72.8	30.7	23.3	189	< 0.10
	2003 02 (Summer)		< 50.0	< 50.0	11.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	124	< 0.40	< 50.0	2.1 J	< 20.0	< 10.0	< 5.0	3.4 J	4.6 J	< 200	36.7 J	65.8	28.0	22.7	135 J	< 0.10
	2002 04 (Winter)		< 50.0	3.7 J	10.0	< 2.0	< 5.0	< 10.0	0.19 J	2.9 J	0.036 J	0.33 J	< 0.20	5.4 J	2.2 J	0.71 J	< 5.0	< 2.0	5.5 J	0.72 J	4.9 J	360	70.0	28.0	15.0	120	< 0.010
	2002 02 (Summer)		0.37 J	4.6 J	16.0	< 2.0	< 5.0	0.95 J	1.1 J	0.52 J	< 3.0	98.0	< 0.20	2.4 J	2.0 J	0.81 J	0.27 J	< 2.0	3.4 J	2.3 J	< 100	140	64.0	34.0 J	25.0	240	< 0.010
M006-A	2006 01 (Spring)		< 1.0	6.5	73.0	< 2.0	< 5.0	< 10.0	0.37 J	2.9 J	< 3.0	440	**0.14 J**	< 20.0	**9.6 J**	< 5.0	1.6 J	1.8 J	< 10.0	< 20.0	< 100	190	96.0	15.0	7.6	19.0	< 0.010
	2005 02 (Summer)		< 1.0	2.3 J	69.0	< 2.0	< 5.0	< 10.0	0.30 J	1.3 J	< 3.0	320	< 0.20	0.60 J	6.8 J	0.41 J	< 5.0	< 5.0	0.60 J	3.3 J	< 100	530	79.0	17.0	13.0	34.0	< 0.010
	2004 04 (Winter)		< 1.0	2.3 J	110	< 2.0	< 5.0	< 10.0	0.36 J	0.99 J	0.36 J	890	< 0.20	< 20.0	4.0 J	< 5.0	< 5.0	< 5.0	0.58 J	4.6 J	< 100	**1,900**	89.0	24.0	16.0	55.0	< 0.010
	2004 02 (Summer)		0.20 J	1.7	93.0	< 1.0	< 1.0	< 1.0	0.49 J	1.1	< 1.0	810	< 0.20	< 5.0	6.5	< 1.0	< 1.0	< 1.0	< 10.0	**25.0**	< 50.0	1,500	110	20.0	12.0	25.0	< 0.010
	2003 04 (Winter)		2.7 J	< 50.0	113	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	998	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**2,690**	115 J	23.0	14.2	33.2	< 0.10
	2003 02 (Summer)		< 50.0	< 50.0	121	< 4.0	< 5.0	< 10.0	< 10.0	2.2 J	< 10.0	608	< 0.40	< 50.0	**11.4 J**	< 20.0	< 10.0	< 5.0	< 50.0	2.6 J	< 200	828	118	24.8	14.7	36.3 J	< 0.10
	2002 04 (Winter)		< 50.0	2.5 J	**180**	< 2.0	< 5.0	< 10.0	1.1 J	1.3 J	0.12 J	**1,500**	< 0.20	0.47 J	**9.4 J**	< 5.0	< 5.0	< 2.0	< 10.0	7.2 J	< 100	**1,900**	150	34.0	17.0	39.0	< 0.010
	2002 02 (Summer)		0.077 J	2.8 J	110	< 2.0	< 5.0	< 10.0	0.36 J	0.79 J	< 3.0	910 J	0.061 J	0.51 J	6.6 J	< 5.0	< 5.0	< 2.0	< 10.0	**16.0 J**	< 100	1,400	97.0	24.0 J	12.0	31.0	-
M007-A	2005 02 (Summer)		0.21 J	**17.0**	22.0	< 2.0	< 5.0	1.2 J	0.15 J	0.66 J	< 3.0	400	< 0.20	< 20.0	1.9 J	0.62 J	< 5.0	< 5.0	1.8 J	9.8 J	< 100	490	14.0	7.8	14.0	130	< 0.010
	2004 04 (Winter)		< 1.0	**18.0**	16.0 J	< 2.0	< 5.0	< 10.0	0.20 J	0.54 J	0.21 J	580	< 0.20	< 20.0	1.9 J	< 5.0	< 5.0	< 5.0	2.1 J	3.6 J	< 100	230	19.0	12.0	13.0	140	< 0.010
	2004 02 (Summer)		0.14 J	**19.0**	13.0	< 1.0	< 1.0	< 1.1	0.18 J	0.72 J	0.11 J	390	< 0.20	2.3 J	1.9	< 1.0	< 1.0	0.31 J	< 2.8	5.0	5.1 J	170	14.0	7.9	11.0	170	< 0.010
	2003 04 (Winter)		< 5.0	**22.1 J**	18.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	802	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	**29.7**	< 200	255	24.3	13.2	10.8	97.5	< 0.10
	2003 02 (Summer)		< 50.0	**19.2 J**	14.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	459	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 5.0	2.4 J	2.5 J	< 200	271	13.8	8.0	12.5	119 J	< 0.10
	2002 04 (Winter)		< 50.0	**16.0**	12.0	< 2.0	< 5.0	< 10.0	0.16 J	0.83 J	0.094 J	420	< 0.20	2.2 J	1.8 J	< 5.0	< 5.0	< 2.0	4.2 J	2.7 J	5.3 J	260	15.0	5.9	9.7	170	< 0.010
	2002 02 (Summer)		0.081 J	**19.0**	17.0	< 2.0	< 5.0	1.2 J	0.20 J	0.49 J	< 3.0	570 J	< 0.20	1.2 J	1.4 J	< 5.0	< 5.0	< 2.0	2.6 J	0.53 J	4.0 J	230	17.0	8.3	10.0	110	< 0.010
M025-A	2006 01 (Spring)		0.65 J	< 5.0	**370**	< 2.0	< 5.0	0.93 J	0.11 J	< 10.0	< 3.0	530	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.4 J	**12.0 J**	< 100	110 J	15.0 J	11.0 J	9.0 J	67.0 J	< 0.010
	2005 02 (Summer)		2.5	2.5 J	**620**	< 2.0	< 5.0	1.3 J	0.36 J	1.3 J	< 3.0	350	< 0.20	0.65 J	3.1 J	**4.6 J**	< 5.0	0.35 J	0.80 J	**28.0**	< 100	1,000	260	330	73.0	1,700	< 0.010

FWBZ

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
FWBZ	M025-A	2005 01 (Spring)	9.8	4.2 J	**570**	< 2.0	< 5.0	0.99 J	< 1.0	< 10.0	< 3.0	59.0	< 0.20	**12.0 J**	< 20.0	< 5.0	< 5.0	< 5.0	1.0 J	**17.0 J**	96.0 J	< 100	28.0	27.0	15.0	260	< 0.010
		2004 04 (Winter)	1.3	4.3 J	**220**	< 2.0	< 5.0	0.73 J	0.36 J	2.7 J	0.15 J	290	< 0.20	< 20.0	3.1 J	< 5.0	< 5.0	< 5.0	1.2 J	8.6 J	8.5 J	500	250	460	130	3,100	< 0.010
		2004 02 (Summer)	2.9	< 3.3	**840**	< 1.0	< 1.0	< 1.0 UJ	0.27 J	0.41 J	0.075 J	170	< 0.20	3.5 J	1.0 J	**3.1 J**	< 1.0	< 1.0	< 10.0	8.4	9.8 J	< 100	120	170	52.0	1,000	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	**200**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	18.7	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	**11.1 J**	< 200	86.9 J	11.5	13.0	14.8 J	261	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	**164**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	176	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	74.0 J	139	281	103	2,550	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0 UJ	**285**	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	< 10.0	595	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	134	334	785	427 J	375	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	**958**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	71.7	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.2 J	< 20.0	< 200	75.2 J	52.6	77.3	36.6	546 J	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	**130**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	18.0	< 0.20	1.9 J	< 20.0	< 5.0	< 5.0	< 1.0	4.1 J	2.1 J	12.0 J	55.0 J	10.0	17.0	18.0 J	390	< 0.010
		2002 04 (Winter)	2.9 J	4.1 J	< 180	< 2.0	< 5.0	< 10.0	0.39 J	1.6 J	0.12 J	130	< 0.20	1.5 J	3.5 J	**11.0**	0.056 J	< 2.0	< 10.0	**19.0 J**	17.0 J	570	160	230	66.0	1,900	< 0.010
		2002 03 (Fall)	0.20 J	< 5.0	**250**	< 2.0	< 5.0	< 10.0	0.47 J	< 10.0	< 3.0	650	< 0.20	0.83 J	3.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	920	360	750	180	4,700	0.010
		2002 02 (Summer)	4.1 J	1.7 J	**800**	0.10 J	0.056 J	2.3 J	< 10.0	0.95 J	0.30 J	350	< 0.20	< 20.0	0.82 J	**12.0**	< 5.0	< 2.0	1.7 J	< 20.0	5.8 J	390	140	240	62.0	1,100	< 0.010
	M026-A	2006 01 (Spring)	< 1.0	**11.0**	22.0	< 2.0	< 5.0	< 10.0	0.31 J	7.5 J	< 3.0	1,100	< 0.20	2.3 J	< 20.0	< 5.0	**2.7 J**	**3.3 J**	2.0 J	< 20.0	< 100	93.0 J	140	68.0	35.0	220	< 0.010
		2005 02 (Summer)	0.96 J	5.5	45.0	< 2.0	< 5.0	1.3 J	0.52 J	4.7 J	< 3.0	1.9 J	< 0.20	**9.1 J**	3.8 J	**17.0 J**	0.073 J	0.26 J	3.3 J	**47.0**	13.0 J	850	270	710	220	6,100	< 0.010
		2004 04 (Winter)	0.57 J	< 5.0	41.0 J	< 2.0	< 5.0	3.2 J	0.92 J	**7.9 J**	0.29 J	23.0	0.055 J	**7.3 J**	7.0 J	**4.7 J**	< 5.0	< 5.0	1.9 J	**23.0**	< 100	920	380	1,100	330	8,400	< 0.010
		2004 02 (Summer)	0.67 J	8.0	40.0	< 2.0	< 5.0	< 10.0	0.29 J	2.9 J	0.13 J	< 10.0	< 0.20	**12.0 J**	< 20.0	< 1.0	< 5.0	< 1.0	6.3 J	< 20.0	2.4 J	< 100	280	800	260	6,200	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	20.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	**38.5 J**	< 20.0	< 20.0	< 10.0	< 25.0	5.4 J	< 20.0	< 200	< 100	327	853	348	7,630	< 0.10
		2003 02 (Summer)	< 50.0	**9.7 J**	42.0 J	< 4.0	1.0 J	< 10.0	1.6 J	4.0 J	< 10.0	25.1	< 0.40	**6.5 J**	2.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	300	839	273	5,990 J	< 0.10
		2002 04 (Winter)	0.48 J	7.9	4.9 J	< 2.0	< 5.0	< 10.0	0.27 J	5.5 J	0.099 J	180	< 0.20	**5.8 J**	1.8 J	**6.3**	< 5.0	< 2.0	6.5 J	6.9 J	4.9 J	< 360	110	140	56.0	1,300	< 0.010
		2002 02 (Summer)	0.79 J	5.8	46.0	< 2.0	< 5.0	1.8 J	< 10.0	4.8 J	< 3.0	23.0	**0.14 J**	**7.3 J**	2.5 J	**10.0**	0.53 J	< 2.0	3.2 J	< 20.0	3.5 J	490	310	820	240	6,700	< 0.010
	M026-E	2005 02 (Summer)	< 1.0	7.0	**500**	< 2.0	< 5.0	1.4 J	0.39 J	1.0 J	< 3.0	1,100	< 0.20	3.7 J	2.4 J	**3.6 J**	< 5.0	< 5.0	0.65 J	**34.0**	< 100	**2,700**	130	150	56.0	1,400	< 0.010
		2004 04 (Winter)	< 1.0	1.7 J	**240**	< 2.0	< 5.0	< 10.0	0.88 J	3.4 J	0.18 J	**2,900**	< 0.20	2.9 J	4.1 J	< 5.0	< 5.0	< 5.0	< 10.0	**15.0 J**	< 100	**6,800**	**540**	730	180	4,600	< 0.010
		2004 02 (Summer)	< 1.0	6.3	**150**	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 1.0	820	< 0.20	< 20.0	< 20.0	**5.4**	< 5.0	< 1.0	< 10.0	< 20.0	3.4 J	**1,700**	77.0	140	56.0	1,400	< 0.010
		2003 04 (Winter)	< 5.0	4.6 J	**218**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**3,120**	< 0.40	**11.3 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**6,810**	**483**	900	295	7,090	< 0.10
		2003 02 (Summer)	< 50.0	7.3 J	111	< 4.0	< 5.0	< 10.0	< 10.0	1.6 J	< 10.0	741	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	2.9 J	< 200	1,300	78.4	126	56.8	1,140 J	< 0.10
		2002 04 (Winter)	0.13 J	**13.0**	**200**	< 2.0	< 5.0	< 10.0	1.2 J	2.5 J	0.058 J	**2,900**	< 0.20	1.4 J	3.0 J	**22.0**	< 5.0	< 2.0	< 10.0	< 20.0	3.1 J	**4,600**	380	620	160	4,200	< 0.010
		2002 02 (Summer)	0.091 J	6.0	120	< 2.0	< 5.0	2.7 J	< 10.0	0.81 J	< 3.0	860	0.052 J	< 20.0	1.1 J	**7.0**	0.055 J	< 2.0	1.7 J	< 20.0	< 100	**1,800**	110	180	55.0	1,600	< 0.010
	M027-A	2006 01 (Spring)	9.6	2.9 J	48.0	< 2.0	**5.1**	< 10.0	< 1.0	**7.8 J**	< 3.0	20.0	< 0.20	2.4 J	1.6 J	< 5.0	< 5.0	2.1 J	0.95 J	**51.0**	< 100	110	94.0	53.0	27.0	110	< 0.010
		2005 02 (Summer)	5.8	3.7 J	**180**	< 2.0	1.1 J	0.98 J	0.38 J	1.8 J	0.25 J	240	< 0.20	2.2 J	3.0 J	1.3 J	< 5.0	< 5.0	1.7 J	**27.0**	< 100	420	99.0	43.0	38.0	530	< 0.010
		2005 01 (Spring)	10.0	< 5.0	57.0	< 2.0	**4.0 J**	< 10.0	< 1.0	< 10.0	< 3.0	70.0	< 0.20	1.9 J	2.5 J	< 5.0	< 5.0	< 5.0	0.99 J	**26.0**	92.0 J	82.0 J	90.0	53.0	29.0	150	< 0.010
		2004 04 (Winter)	2.5	3.5 J	**180**	< 2.0	< 5.0	< 10.0	0.32 J	0.97 J	0.079 J	330	0.050 J	2.8 J	2.1 J	< 5.0	< 5.0	< 5.0	1.6 J	7.9 J	< 100	690	93.0	51.0	43.0	620	< 0.010
		2004 02 (Summer)	5.0	4.6	**160**	< 1.0	0.78 J	< 1.0	0.29 J	0.99 J	0.18 J	270	< 0.20	< 5.0	2.0	1.3	< 1.0	< 1.0	5.5 J	4.0	< 50.0	710	88.0	49.0	42.0	620	< 0.010
		2004 01 (Spring)	4.6 J	< 50.0	**165**	< 4.0	**2.1 J**	< 10.0	< 10.0	< 10.0	< 10.0	385	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	8.0 J	< 200	1,380	113	50.9	43.5 J	516	< 0.10
		2003 04 (Winter)	< 5.0	4.3 J	**231**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	447	**0.24 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	285	107	60.2	52.5	769	< 0.10
		2003 03 (Fall)	2.9 J	6.5 J	**138**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	303	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	395	103	47.4	28.8 J	275 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	**233**	< 4.0	< 5.0	< 10.0	< 10.0	1.9 J	< 10.0	436	< 0.40	< 50.0	2.2 J	< 20.0	< 10.0	< 5.0	< 50.0	8.5 J	< 200	959	120	63.7	43.3	524 J	< 0.10
		2003 01 (Spring)	2.7	4.6 J	**250**	< 2.0	**2.6 J**	< 10.0	< 10.0	2.9 J	< 3.0	490	< 0.20	2.3 J	< 20.0	**2.7 J**	< 5.0	< 1.0	< 10.0	10.0 J	< 100	1,600	120	55.0	43.0 J	760	< 0.010
		2002 04 (Winter)	**13.0 J**	< 5.0	97.0	< 2.0	**3.2 J**	< 10.0	0.21 J	5.2 J	0.058 J	63.0	< 0.20	1.7 J	2.1 J	0.65 J	< 5.0	< 2.0	< 10.0	**22.0 J**	< 100	< 340	100	53.0	33.0	130	< 0.010
		2002 03 (Fall)	2.2 J	< 5.0	**180**	< 2.0	0.50 J	< 10.0	< 10.0	< 10.0	< 3.0	420	< 0.20	2.4 J	< 20.0	0.88 J	< 5.0	< 2.0	< 10.0	< 20.0	< 100	700	110	55.0	44.0	370	< 0.010

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M027-A	2002 02 (Summer)	2.2 J	2.8 J	**190**	< 2.0	0.58 J	0.96 J	< 10.0	< 10.0	< 3.0	390	< 0.20	< 20.0	1.6 J	1.9 J	-	< 2.0	0.74 J	6.3 J	< 100	900	97.0	57.0	42.0	370	-
	M028-A	2006 01 (Spring)	2.6	5.2	83.0	< 2.0	< 5.0	< 10.0	0.30 J	3.0 J	< 3.0	120	< 0.20	3.2 J	**10.0 J**	< 5.0	1.5 J	< 5.0	< 10.0	**51.0**	< 100	240	95.0	29.0	19.0	< 50.0	-
		2005 02 (Summer)	< 1.0	5.5	120	< 2.0	< 5.0	0.93 J	0.48 J	0.34 J	< 3.0	350	< 0.20	0.49 J	0.84 J	1.3 J	< 5.0	< 5.0	0.51 J	**19.0 J**	6.1 J	**4,100**	65.0	27.0	29.0	69.0	< 0.010
		2005 01 (Spring)	1.6	< 5.0	110	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	120	< 0.20	2.5 J	**7.9 J**	< 5.0	< 5.0	**5.8**	< 10.0	**41.0**	86.0 J	1,100	100	34.0	19.0	71.0	< 0.010
		2004 04 (Winter)	0.11 J	3.6 J	**150**	< 2.0	< 5.0	0.43 J	0.30 J	1.4 J	0.33 J	450	< 0.20	0.30 J	1.5 J	< 5.0	< 5.0	< 5.0	0.62 J	4.5 J	5.2 J	**5,800**	100 J	37.0 J	31.0	91.0	< 0.010
		2004 02 (Summer)	< 1.0	6.9	110	< 1.0	< 1.0	< 10.0	0.46 J	1.1	0.10 J	450	< 0.20	< 5.0	1.3	< 1.0	< 1.0	< 1.0	< 10.0	**13.0 J**	< 50.0	**5,700**	68.0	28.0	31.0	70.0	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	107	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	**3.6 J**	199	< 0.40	< 50.0	**53.7**	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	**12.1 J**	< 200	**2,380**	91.0	32.3	23.4 J	71.1	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	**161**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	405	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**6,560**	107	39.3	32.3	81.4	< 0.10
		2003 03 (Fall)	< 5.0 UJ	**21.2 J**	**190**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1,050	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**17,100**	127	41.0	35.8 J	88.9 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	106	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	274	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**3,900**	50.5	26.9	32.7 J	71.4	< 0.10
		2003 01 (Spring)	< 1.0	5.6	120	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	240	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	**15.0 J**	**110**	**3,500**	75.0	32.0	26.0 J	76.0	< 0.010
		2002 04 (Winter)	5.9 J	< 5.0	91.0	< 2.0	**3.5 J**	< 10.0	0.16 J	**12.0**	0.43 J	25.0	< 0.20	2.2 J	**8.7 J**	< 5.0 J	< 5.0	< 2.0	< 10.0	**100 J**	3.4 J	< 270	100	34.0	23.0	78.0	< 0.010
		2002 03 (Fall)	0.20 J	**14.0**	**240**	< 2.0	< 5.0	< 10.0	0.53 J	< 10.0	< 3.0	810	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**12,000**	100	41.0	47.0	88.0	< 0.010
		2002 02 (Summer)	0.17 J	4.7 J	**170**	< 2.0	< 5.0	2.2 J	< 10.0	0.59 J	< 3.0	350	< 0.20	< 20.0	0.48 J	0.63 J	< 5.0	< 2.0	0.47 J	< 20.0	< 100	**4,700**	67.0	30.0	33.0	74.0	< 0.010
	M028-E	2006 01 (Spring)	0.57 J	**21.0**	76.0	< 2.0	< 5.0	0.98 J	1.1	< 10.0	< 3.0	1,100	< 0.20	1.4 J	< 20.0	**2.1 J**	< 5.0	1.2 J	1.4 J	< 20.0	< 100	**10,000**	87.0	22.0	30.0	68.0	< 0.010
		2005 02 (Summer)	0.36 J	**39.0**	**190**	< 2.0	< 5.0	< 10.0	1.3	0.47 J	< 3.0	**1,400**	< 0.20	0.33 J	1.4 J	1.3 J	< 5.0	< 5.0	0.57 J	5.2 J	< 100	**20,000**	120	37.0	43.0	290	< 0.010
		2005 01 (Spring)	0.41 J	**21.0**	100	< 2.0	< 5.0	1.1 J	< 1.0	< 10.0	< 3.0	**1,400**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	**6.1**	< 10.0	< 20.0	92.0 J	**16,000**	130	31.0	35.0	61.0	< 0.010
		2004 04 (Winter)	0.43 J	**31.0**	**230**	< 2.0	< 5.0	1.1 J	0.93 J	1.0 J	0.62 J	**2,200**	< 0.20	0.23 J	2.0 J	< 5.0	< 5.0	< 5.0	0.62 J	8.3 J	0.83 J	**27,000**	170 J	46.0 J	48.0	190	< 0.010
		2004 02 (Summer)	0.52 J	**39.0**	**200**	< 1.0	< 1.0	< 1.1	1.1	0.63 J	0.077 J	**1,800**	< 0.20	< 5.0	1.6	< 1.0	< 1.0	0.40 J	< 10.0	< 1.9	< 50.0	**21,000**	150	42.0	46.0	300	< 0.010
		2004 01 (Spring)	< 5.0	**21.3 J**	123	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,690**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	**12.1 J**	< 200	**18,400**	143	36.7	40.9 J	65.3	< 0.10
		2003 04 (Winter)	< 5.0	**31.5 J**	**200**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,720**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**22,300**	142	38.5	45.3	187	< 0.10
		2003 03 (Fall)	< 5.0 UJ	**47.7 J**	**273**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2,030**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**26,200**	171	53.0	49.7 J	419 J	< 0.10
		2003 02 (Summer)	< 50.0	**38.2 J**	**173**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,790**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**21,700**	143	38.4	60.2 J	140	< 0.10
		2003 01 (Spring)	< 1.0	**27.0**	**170**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**1,900**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	2.5 J	< 100	**22,000**	160	42.0	44.0	67.0	< 0.010
		2002 04 (Winter)	0.34 J	**20.0**	**140**	< 2.0	< 5.0	< 10.0	0.72 J	0.52 J	0.078 J	**1,700**	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	7.4 J	34.0 J	**18,000**	130	35.0	42.0	79.0	< 0.010
	M029-A	2006 01 (Spring)	< 1.0	2.5 J	**190**	< 2.0	< 5.0	< 10.0	0.12 J	< 10.0	< 3.0	76.0	**0.13 J**	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	290	24.0	39.0	21.0	< 50.0	< 0.010
		2005 02 (Summer)	< 1.0	1.4 J	**180**	< 2.0	< 5.0	< 10.0	0.11 J	0.34 J	< 3.0	85.0	< 0.20	0.79 J	0.70 J	0.51 J	< 5.0	< 5.0	0.36 J	8.7 J	< 100	430	24.0	47.0	27.0 J	150	< 0.010
		2005 01 (Spring)	0.23 J	< 5.0	**170**	0.28 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	59.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	**14.0 J**	**120**	400	22.0	41.0	21.0	120	< 0.010
		2004 04 (Winter)	< 1.0	2.2 J	**250**	< 2.0	< 5.0	0.59 J	0.099 J	1.0 J	0.27 J	57.0	< 0.20	0.53 J	0.64 J	< 5.0	< 5.0	< 5.0	0.91 J	7.5 J	43.0 J	250	24.0 J	55.0 J	33.0	200	< 0.010
		2004 02 (Summer)	< 1.0	2.2	**190**	< 1.0	< 1.0	< 10.0	0.11 J	0.97 J	0.10 J	57.0	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 20.0	< 50.0	320	23.0	49.0	29.0	170	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	**179**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	61.5 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	346 J	25.2 J	46.1	26.1	152	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	**241**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	69.1	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	164	26.2	61.1	36.1	202	< 0.10
		2003 03 (Fall)	< 5.0	< 50.0	**220**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	60.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	48.7 J	165	23.4	54.1	38.3 J	148	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	**226**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	55.3	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	68.4 J	246	24.6	52.8	36.3 J	140	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	**220**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	55.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	36.0 J	300	23.0	56.0	28.0 J	150	< 0.010
		2002 04 (Winter)	0.34 J	< 5.0	**200**	< 2.0	< 5.0	< 10.0	0.14 J	0.59 J	0.081 J	64.0	< 0.20	0.79 J	1.7 J	< 5.0	< 5.0	< 2.0	< 10.0	4.5 J	39.0 J	< 300	23.0	41.0	25.0	150	< 0.010
		2002 03 (Fall)	< 50.0	< 5.0	**220**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	51.0	< 0.20	0.64 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	190	20.0	50.0	30.0	170	< 0.010
		2002 02 (Summer)	0.054 J	0.71 J	**260**	< 2.0	< 5.0	0.66 J	0.081 J	0.19 J	< 3.0	49.0	< 0.20	< 20.0	0.21 J	0.55 J	< 5.0 UJ	< 2.0	0.17 J	< 20.0	34.0 J	230	23.0	52.0 J	30.0	180	0.030

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

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Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M029-E	2005 02 (Summer)	< 1.0	1.8 J	**330**	< 2.0	< 5.0	0.80 J	0.087 J	0.52 J	< 3.0	27.0	< 0.20	0.79 J	0.58 J	0.73 J	< 5.0	< 5.0	0.25 J	**23.0**	6.4 J	500	24.0	28.0	21.0	180	< 0.010
		2004 04 (Winter)	0.14 J	1.7 J	**510**	< 2.0	< 5.0	0.49 J	< 1.0	< 10.0	< 3.0	35.0	< 0.20	0.56 J	0.32 J	**2.2 J**	< 5.0	1.1 J	0.77 J	5.4 J	2.7 J	500	32.0 J	38.0 J	26.0	250	< 0.010
		2004 02 (Summer)	< 1.0	2.5	**360**	< 1.0	< 1.0	< 10.0	0.085 J	1.2	0.11 J	24.0	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5 J	< 50.0	440	22.0	28.0	22.0	210	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	**474**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	36.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	375	31.3	41.6	32.0	326	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	**430**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	30.5	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	398 J	28.0	37.0	34.6	179	< 0.10
		2002 04 (Winter)	0.25 J	< 5.0	**310**	< 2.0	< 5.0	< 10.0	0.057 J	0.44 J	0.051 J	24.0	0.095 J	0.89 J	0.16 J	0.41 J	< 5.0	< 2.0	< 10.0	0.92 J	5.2 J	< 290	19.0	27.0	22.0	220	< 0.010
		2002 02 (Summer)	0.077 J	0.80 J	**390**	< 2.0	< 5.0	0.47 J	0.049 J	0.088 J	< 3.0	25.0	< 0.20	< 20.0	0.23 J	1.2 J	< 5.0 UJ	< 2.0	0.11 J	< 20.0	< 100	280	23.0	33.0 J	26.0	270	0.030
	M030-A	2006 01 (Spring)	2.8	5.5	30.0	< 2.0	< 5.0	< 10.0	0.14 J	**7.9 J**	< 3.0	< 10.0	< 0.20	2.1 J	**16.0 J**	< 5.0	< 5.0	< 5.0	2.3 J	**18.0 J**	< 100	< 100	42.0	10.0	3.5	13.0	< 0.010
		2005 02 (Summer)	0.61 J	3.2 J	26.0	< 2.0	< 5.0	< 10.0	0.40 J	1.4 J	< 3.0	42.0	< 0.20	1.3 J	6.4 J	0.90 J	< 5.0	< 5.0	2.9 J	**15.0 J**	< 100	150	31.0	8.2	7.0	11.0	< 0.010
		2005 01 (Spring)	1.9	< 5.0	32.0	0.44 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	10.0	< 0.20	< 20.0	**16.0 J**	< 5.0	< 5.0	< 5.0	2.1 J	**18.0 J**	< 100	< 100	49.0	13.0	4.7	16.0	< 0.010
		2004 04 (Winter)	0.49 J	4.1 J	27.0	< 2.0	< 5.0	0.38 J	0.14 J	1.5 J	0.22 J	57.0	< 0.20	1.5 J	4.0 J	1.7 J	< 5.0	< 5.0	4.0 J	6.6 J	3.5 J	74.0 J	29.0 J	8.0 J	6.6	23.0	< 0.010
		2004 02 (Summer)	0.61 J	4.4	27.0	< 1.0	< 1.0	< 1.0	0.23 J	2.6	0.12 J	30.0	< 0.20	< 5.0	4.5	< 1.0	< 1.0	< 1.0	< 10.0	5.3	< 50.0	74.0	31.0	7.4	6.8	16.0	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	39.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	5.2 J	< 200	< 100	48.1	12.8	6.2 J	12.7	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	34.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5.2 J	< 0.40	< 50.0	**34.1**	< 20.0	< 10.0	< 5.0 UJ	5.9 J	**17.9 J**	< 200	< 100	42.5	12.9	4.9	17.0	< 0.10
		2003 03 (Fall)	< 5.0	7.0 J	30.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	25.6	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 5.0	3.8 J	< 20.0	< 200	< 100	34.2	8.2	6.9 J	16.9	< 0.10
		2003 02 (Summer)	< 50.0	6.1 J	25.5 J	< 4.0	< 5.0	< 10.0	< 10.0	2.0 J	< 10.0	4.4 J	< 0.40	< 50.0	3.2 J	< 20.0	< 10.0	< 5.0	5.9 J	< 20.0	< 200	< 100	28.9	6.8	5.7	13.6 J	< 0.10
		2003 01 (Spring)	2.7	< 5.0	30.0	< 2.0	< 5.0	< 10.0	< 10.0	5.2 J	< 3.0	< 10.0	< 0.20	< 20.0	**8.3 J**	< 5.0	< 5.0	< 1.0	3.2 J	6.8 J	12.0 J	100	40.0	9.1	4.3 J	13.0	< 0.010
		2002 04 (Winter)	< 50.0	2.6 J	26.0	< 2.0	< 5.0	< 10.0	0.59 J	4.8 J	0.36 J	2.7 J	< 0.20	1.8 J	7.4 J	0.46 J	< 5.0	< 2.0	4.4 J	**11.0 J**	27.0 J	250	36.0	8.6	3.7	15.0	< 0.010
		2002 03 (Fall)	0.72 J	< 5.0	33.0	< 2.0	< 5.0	< 10.0	< 10.0	5.3 J	< 3.0	29.0	< 0.20	2.2 J	2.6 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	< 110	33.0	8.5	8.9	< 17.0	< 0.010
		2002 02 (Summer)	0.89 J	2.2 J	26.0	< 2.0	< 5.0	0.22 J	0.042 J	1.4 J	< 3.0	1.7 J	< 0.20	< 20.0	2.5 J	0.36 J	< 5.0 UJ	< 2.0	3.1 J	< 20.0	3.4 J	57.0 J	30.0	6.2	6.9	17.0	0.020
	M031-A	2006 01 (Spring)	0.25 J	4.6 J	52.0	< 2.0	**3.5 J**	0.63 J	1.1	3.9 J	< 3.0	310	< 0.20	2.6 J	4.8 J	< 5.0	< 5.0	1.1 J	2.2 J	**1,200**	< 100	860	52.0	10.0	6.3	21.0	< 0.010
		2005 02 (Summer)	< 1.0	3.8 J	36.0	< 2.0	< 5.0	< 10.0	0.16 J	0.40 J	< 3.0	240	< 0.20	3.7 J	2.0 J	0.35 J	< 5.0	< 5.0	1.0 J	7.4 J	< 100	550	34.0	15.0	16.0	41.0	< 0.010
		2005 01 (Spring)	< 1.0	< 5.0	36.0	< 2.0	0.79 J	< 10.0	< 1.0	< 10.0	< 3.0	300	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	1.7 J	**75.0**	< 100	< 100	36.0	13.0 J	11.0	62.0	< 0.010
		2004 04 (Winter)	< 1.0	3.5 J	39.0 J	< 2.0	< 5.0	< 10.0	0.20 J	2.9 J	0.11 J	360	< 0.20	3.6 J	2.5 J	< 5.0	< 5.0	< 5.0	1.8 J	5.6 J	< 100	260	54.0	17.0	16.0	56.0	< 0.010
		2004 02 (Summer)	0.12 J	3.9	32.0	< 1.0	< 1.0	< 1.0	0.18 J	1.8	0.10 J	460	0.066 J	3.7 J	2.0	< 1.0	< 1.0	< 1.0	< 10.0	9.4	< 50.0	450	43.0	14.0	14.0	48.0	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	30.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	529 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.7 J	< 200	92.2 J	49.7 J	14.2	10.8	42.0	< 0.10
		2003 04 (Winter)	< 5.0	4.3 J	53.9 J	< 4.0	< 5.0	< 10.0	< 10.0	**13.3**	< 10.0	257	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	137	86.6	20.7	15.9	63.6	< 0.10
		2003 03 (Fall)	< 5.0	< 50.0	44.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	284	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	193	42.6	18.4	21.1 J	73.9	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	34.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	493	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	447	48.5	16.6	16.9 J	63.2	< 0.10
		2003 01 (Spring)	1.0	3.8 J	< 31.0	0.87 J	0.96 J	1.3 J	1.0 J	3.9 J	< 3.0	510	< 0.20	4.6 J	2.3 J	0.95 J	< 5.0	< 1.0	2.3 J	2.7 J	4.2 J	410	53.0	14.0	14.0	71.0	< 0.010
		2002 04 (Winter)	0.86 J	3.3 J	46.0	< 2.0	< 5.0	< 10.0	0.22 J	7.1 J	0.11 J	300	< 0.20	3.1 J	2.2 J	< 5.0	< 5.0	< 2.0	2.7 J	3.8 J	54.0 J	< 210	48.0	15.0	12.0	50.0	< 0.010
		2002 03 (Fall)	< 50.0	3.5 J	39.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	210	< 0.20	2.9 J	< 20.0	< 5.0	< 5.0	< 2.0	6.4 J	< 20.0 UJ	< 100	200	30.0	11.0	16.0	72.0	< 0.010
		2002 02 (Summer)	< 50.0	3.0 J	34.0	< 2.0	< 5.0	0.35 J	< 10.0	< 10.0	< 3.0	330	< 0.20	3.4 J	1.4 J	0.37 J	-	< 2.0	1.0 J	< 20.0	< 100	150	33.0	12.0	13.0	65.0	< 0.010
	M032-A	2006 01 (Spring)	< 1.0	3.8 J	66.0	< 2.0	< 5.0	< 10.0	< 1.0	1.3 J	< 3.0	440	< 0.20	2.8 J	< 20.0	< 5.0	< 5.0	0.99 J	0.76 J	1.9 J	< 100	1,300	52.0	20.0	12.0	21.0	< 0.010
		2005 02 (Summer)	< 1.0	2.1 J	82.0	< 2.0	< 5.0	1.0 J	0.16 J	0.39 J	< 3.0	480	< 0.20	1.5 J	1.1 J	0.42 J	< 5.0	< 5.0	0.53 J	**13.0 J**	< 100	**1,900**	62.0	23.0	14.0	19.0	< 0.010
		2004 04 (Winter)	< 1.0	1.8 J	110	< 2.0	< 5.0	< 10.0	0.21 J	0.51 J	0.21 J	660	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	0.48 J	2.5 J	< 100	**2,300**	82.0	31.0	16.0	26.0	< 0.010
		2004 02 (Summer)	0.089 J	1.9	81.0	< 1.0	< 1.0	< 1.0	0.15 J	0.47 J	0.10 J	500	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	3.8	< 50.0	**2,000**	68.0	27.0	15.0	20.0	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	116	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	713	**0.30 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**2,620**	93.9	37.6	18.6	34.2	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
FWBZ	M032-A	2003 02 (Summer)	< 50.0	< 50.0	87.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	523	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**1,920**	74.2	29.4	15.5 J	23.7	< 0.10
		2002 04 (Winter)	0.064 J	1.6 J	110	< 2.0	< 5.0	< 10.0	0.24 J	0.56 J	0.052 J	560	< 0.20	< 20.0	1.4 J	< 5.0	< 5.0	< 2.0	0.66 J	3.3 J	< 100	**1,800**	81.0	33.0	17.0	38.0	< 0.010
		2002 02 (Summer)	0.059 J	< 5.0	83.0	< 2.0	< 5.0	< 10.0	0.18 J	0.28 J	< 3.0	530 J	< 0.20	1.7 J	0.77 J	< 5.0	< 5.0	< 2.0	< 10.0	7.4 J	< 100	**1,800**	74.0	30.0 J	16.0	27.0	< 0.010
	M033-A	2006 01 (Spring)	0.12 J	5.0	15.0	< 2.0	< 5.0	< 10.0	< 1.0	0.92 J	< 3.0	230	< 0.20	4.0 J	< 20.0	< 5.0	< 5.0	< 5.0	0.59 J	< 20.0	< 100	560	39.0	12.0	10.0	53.0	< 0.010
		2005 02 (Summer)	< 1.0	4.9 J	33.0	< 2.0	< 5.0	0.83 J	0.11 J	0.32 J	< 3.0	460	< 0.20	1.8 J	0.89 J	0.53 J	< 5.0	< 5.0	0.53 J	6.8 J	< 100	1,300	77.0	28.0	18.0	47.0	< 0.010
		2005 01 (Spring)	< 1.0	< 5.0	19.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	230	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	7.2 J	< 100	580	47.0	16.0 J	12.0	52.0	< 0.010
		2004 04 (Winter)	0.094 J	3.5 J	28.0	< 2.0	< 5.0	0.45 J	0.14 J	0.65 J	0.40 J	410	< 0.20	2.5 J	1.3 J	< 5.0	< 5.0	< 5.0	< 10.0	4.7 J	2.6 J	1,100	81.0 J	24.0 J	16.0	61.0	< 0.010
		2004 02 (Summer)	< 1.0	4.6	30.0	< 1.0	< 1.0	< 10.0	0.16 J	< 1.0	0.056 J	470	< 0.20	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	5.0 J	< 50.0	1,200	78.0	28.0	18.0	76.0	< 0.010
		2004 01 (Spring)	< 5.0	5.5 J	22.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	302 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	740 J	61.6 J	20.2	14.6	68.4	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	33.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	515	**0.23 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	987	95.2	30.7	18.0	92.5	< 0.10
		2003 03 (Fall)	< 5.0 UJ	< 50.0	34.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	610 J	< 0.40	< 50.0	2.4 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	1,380 J	100 J	36.4 J	23.5 J	66.3 J	< 0.10
		2003 02 (Summer)	< 50.0	< 50.0	28.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	497	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	4.5 J	< 200	1,200 J	80.3	25.6	18.4	74.2	< 0.10
		2003 01 (Spring)	< 1.0	3.2 J	31.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	360	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	9.0 J	< 100	790	66.0	28.0	16.0	67.0	< 0.010
		2002 04 (Winter)	0.12 J	4.6 J	31.0	< 2.0	< 5.0	< 10.0	0.13 J	0.29 J	0.044 J	420	< 0.20	2.6 J	0.35 J	< 5.0	< 5.0	< 2.0	< 10.0	0.78 J	4.7 J	890	69.0	27.0	16.0	100	< 0.010
		2002 03 (Fall)	< 50.0	4.0 J	27.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	410	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	1,100	65.0	25.0	18.0	66.0	< 0.010
		2002 02 (Summer)	< 50.0	5.0 J	23.0	< 2.0	< 5.0	0.44 J	< 10.0	< 10.0	0.026 J	320	< 0.20	< 20.0	0.59 J	< 5.0	-	< 2.0	0.48 J	< 20.0	< 100	960	51.0	15.0	14.0	100	< 0.010
	M034-A	2006 01 (Spring)	< 1.0	**9.0**	90.0	< 2.0	< 5.0	< 10.0	0.57 J	< 10.0	< 3.0	410	< 0.20	1.8 J	< 20.0	< 5.0	< 5.0	**2.7 J**	< 10.0	1.7 J	< 100	**3,700**	51.0	11.0	14.0	47.0	< 0.010
		2005 02 (Summer)	< 1.0	**10.0**	100	< 2.0	< 5.0	1.1 J	0.56 J	0.45 J	< 3.0	490	< 0.20	0.77 J	0.76 J	0.49 J	< 5.0	< 5.0	0.46 J	**15.0 J**	1.7 J	**4,700**	55.0	13.0	18.0	46.0	< 0.010
		2005 01 (Spring)	< 1.0	**10.0**	**130**	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	650	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	5.8 J	< 100	**5,700**	65.0	18.0 J	19.0	79.0	< 0.010
		2004 04 (Winter)	0.094 J	**9.7**	88.0	< 2.0	< 5.0	0.51 J	0.72 J	0.56 J	0.078 J	400	< 0.20	0.77 J	0.62 J	< 5.0	< 5.0	< 5.0	0.50 J	3.7 J	1.5 J	**3,900**	50.0 J	9.9 J	16.0	56.0	< 0.010
		2004 02 (Summer)	< 1.0	**9.4**	110	< 1.0	< 1.0	< 10.0	0.57 J	< 1.0	0.068 J	630	**0.12 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 20.0	< 50.0	**5,500**	57.0	16.0	20.0	69.0	< 0.010
		2004 01 (Spring)	< 5.0	7.8 J	92.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	545 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**5,260 J**	58.2 J	13.3	15.4	59.4	< 0.10
		2003 04 (Winter)	< 5.0	**12.9 J**	92.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	454	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**4,940**	54.3	11.0	18.4	55.5	< 0.10
		2003 03 (Fall)	2.4 J	**10.8 J**	111	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	613 J	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	34.1 J	**5,760 J**	61.6 J	13.3 J	18.5 J	52.0 J	< 0.10
		2003 02 (Summer)	< 50.0	7.8 J	**129**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	815	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**6,470**	63.8	19.7	26.6 J	82.1	< 0.10
		2003 01 (Spring)	< 1.0	**10.0**	87.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	440	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0 UJ	< 100	**4,500**	49.0	9.8	14.0	48.0	< 0.010
		2002 04 (Winter)	0.17 J	**13.0**	100	< 2.0	0.091 J	< 10.0	0.82 J	0.33 J	0.046 J	510	< 0.20	< 20.0	0.97 J	< 5.0	< 5.0	< 2.0	0.72 J	1.3 J	< 100	**4,700**	56.0	9.2	16.0	56.0	< 0.010
		2002 03 (Fall)	< 50.0	**13.0**	110	< 2.0	< 5.0	< 10.0	0.73 J	< 10.0	< 3.0	570	< 0.20	0.80 J	< 20.0	< 5.0	< 5.0	< 2.0	6.4 J	< 20.0 UJ	< 100	**5,900**	56.0	11.0	18.0	53.0	< 0.010
		2002 02 (Summer)	< 50.0	**12.0**	120	< 2.0	< 5.0	0.80 J	0.61 J	< 10.0	0.031 J	720	< 0.20	< 20.0	0.59 J	0.76 J	-	< 2.0	0.44 J	4.6 J	< 100	**5,800**	59.0	15.0	21.0	70.0	< 0.010
	M035-A	2005 02 (Summer)	< 1.0	**8.8**	48.0	< 2.0	< 5.0	< 10.0	0.72 J	1.6 J	0.37 J	810	< 0.20	1.9 J	3.6 J	0.63 J	< 5.0	< 5.0	0.90 J	**21.0**	< 100	360	82.0	24.0	8.7	37.0	< 0.010
		2005 01 (Spring)	0.81 J	3.0 J	46.0	< 2.0	< 5.0	< 10.0	< 1.0	4.0 J	< 3.0	200	< 0.20	< 20.0	3.3 J	< 5.0	< 5.0	< 5.0	1.1 J	**12.0 J**	< 100	110	82.0	19.0 J	3.9	24.0	< 0.010
		2004 04 (Winter)	< 1.0	**11.0**	42.0 J	< 2.0	< 5.0	< 10.0	0.48 J	1.7 J	0.32 J	640	< 0.20	< 20.0	2.9 J	< 5.0	< 5.0	0.28 J	0.67 J	4.6 J	< 100	280	81.0	23.0	8.8	32.0	< 0.010
		2004 02 (Summer)	0.66 J	**8.5**	47.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	2.4	0.57 J	590	< 0.20	2.7 J	3.5	< 1.0 J	< 1.0	< 1.0	< 10.0	8.7	< 50.0	< 100	77.0	20.0	7.5	29.0	< 0.010
		2004 01 (Spring)	< 5.0	5.7 J	35.8 J	< 4.0	< 5.0	< 10.0	< 10.0	**7.9 J**	< 10.0	224 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	41.0 J	71.0 J	15.9	5.3	22.5	< 0.10
		2003 04 (Winter)	< 5.0	**8.5 J**	35.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	450	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	106	76.5	20.4	6.6	26.0	< 0.10
		2003 03 (Fall)	< 5.0 UJ	**12.3 J**	51.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1,100	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	307	96.5	26.4	8.8 J	32.0 J	< 0.10
		2003 02 (Summer)	< 50.0	**8.0 J**	53.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	616	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	169	98.0	27.7	8.2 J	33.2	< 0.10
		2003 01 (Spring)	0.34 J	8.0	42.0	< 2.0	< 5.0	< 10.0	< 10.0	1.6 J	< 3.0	330	< 0.20	2.2 J	2.7 J	< 5.0	< 5.0	< 1.0	1.2 J	1.6 J	< 100	250	76.0	20.0	7.2	24.0	< 0.010

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																		Common Rock-forming Elements						Cyanide
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
			BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
	Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M035-A	2002 04 (Winter)		1.7 J	3.3 J	38.0	0.043 J	0.28 J	< 10.0	0.24 J	**12.0**	0.13 J	24.0	< 0.20	< 20.0	4.3 J	< 5.0	< 5.0	< 2.0	2.0 J	**11.0 J**	< 100	460	92.0	13.0	2.4	27.0	< 0.010
		2002 03 (Fall)		< 50.0	**11.0**	50.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	770	< 0.20	1.7 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	690	94.0	27.0	8.7	36.0	< 0.010
		2002 02 (Summer)		0.34 J	**11.0**	55.0	< 2.0	< 5.0	0.42 J	0.53 J	< 10.0	< 3.0	920	< 0.20	< 20.0	2.5 J	< 5.0	-	< 2.0	1.3 J	**11.0 J**	< 100	470	99.0	28.0	8.3	32.0	< 0.010
	M001-B	2006 01 (Spring)		< 1.0	**13.0**	58.0	< 2.0	< 5.0	< 10.0	**8.0**	< 10.0	< 3.0	**7,900**	< 0.20	2.6 J	6.0 J	**3.9 J**	**8.1**	**11.0**	< 10.0	< 20.0	32.0 J	140	**560**	1,000	91.0	4,900	-
		2005 02 (Summer)		0.64 J	3.7 J	66.0	0.072 J	< 5.0	< 10.0	**8.6**	2.1 J	0.50 J	**8,300**	< 0.20	4.0 J	**8.8 J**	**19.0**	0.086 J	**4.2 J**	1.3 J	**67.0 J**	< 100	**2,200**	**570**	1,000	99.0 J	5,000	< 0.010
		2004 04 (Winter)		< 1.0	< 5.0	57.0	< 2.0	< 5.0	0.25 J	**7.9**	4.8 J	0.40 J	**8,900**	< 0.20	3.3 J	**9.2 J**	< 5.0	< 5.0	0.78 J	0.51 J	**20.0**	< 100	1,400	**600 J**	1,100 J	120	5,800	< 0.010
		2004 02 (Summer)		< 1.0	< 1.0	61.0	< 1.0	< 1.0	< 10.0	**9.3**	3.7	0.19 J	**7,400**	< 0.20	< 5.0	**13.0**	< 1.0	< 1.0	0.19 J	< 10.0	< 20.0	< 50.0	**2,100**	**530**	980	120	5,300	< 0.010
		2003 04 (Winter)		< 5.0	< 50.0	51.0 J	< 4.0	< 5.0	< 10.0	**6.0 J**	< 10.0	< 10.0	**7,060**	< 0.40	**32.0 J**	**14.0 J**	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	71.6 J	**590**	1,080	147	5,490	< 0.10
		2003 02 (Summer)		< 50.0	< 50.0	57.3 J	< 4.0	< 5.0	< 10.0	**8.4 J**	1.4 J	< 10.0	**7,700**	< 0.40	< 50.0	6.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	72.1 J	**550**	1,020	106	4,470 J	< 0.10
		2002 04 (Winter)		< 50.0	< 5.0	67.0	< 2.0	< 5.0	< 10.0	**8.4 J**	6.3 J	0.057 J	**7,400**	< 0.20	3.2 J	**12.0 J**	< 5.0	< 5.0	< 2.0	2.9 J	< 20.0	17.0 J	**2,700**	**510**	970	110	4,800	< 0.010
		2002 02 (Summer)		< 50.0	< 5.0	65.0	< 2.0	< 5.0	3.4 J	**9.0 J**	**7.8 J**	< 3.0	**7,100**	< 0.20	< 20.0	< 20.0	< 5.0	**4.8 J**	< 2.0	1.6 J	< 28.0	< 100	1,400	**550**	1,000	110	5,200	< 0.010
	M003-B	2006 01 (Spring)		0.093 J	< 5.0	90.0	0.57 J	< 5.0	1.3 J	1.4	< 10.0	< 3.0	**7,100**	**0.27**	< 20.0	1.6 J	**3.4 J**	**1.7 J**	< 5.0	< 10.0	6.3 J	< 100	**7,800 J**	360 J	990 J	190 J	6,700 J	-
		2005 02 (Summer)		0.42 J	1.3 J	110	< 2.0	< 5.0	< 10.0	1.7	1.4 J	0.40 J	**7,600**	< 0.20	3.2 J	4.5 J	**28.0**	< 5.0	< 5.0	0.78 J	**55.0**	< 100	**11,000**	350	970	180	6,600	< 0.010
		2004 04 (Winter)		0.21 J	< 5.0	100	< 2.0	< 5.0	0.41 J	1.9	4.4 J	0.37 J	**8,600**	< 0.20	3.2 J	5.8 J	< 5.0	< 5.0	< 5.0	0.64 J	**21.0**	4.6 J	**9,700**	380 J	1,100 J	230	7,500	< 0.010
		2004 02 (Summer)		< 1.0	< 1.0	100	< 1.0	< 1.0	< 10.0	2.3	7.5	0.32 J	**7,600**	< 0.20	< 5.0	**11.0**	< 1.0	< 1.0	< 1.0	< 10.0	< 20.0	< 50.0	**12,000**	380	1,000	240	7,200	< 0.010
		2003 04 (Winter)		< 5.0	< 50.0	79.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6,440**	< 0.40	**22.5 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**8,040**	315	919	269	6,900	< 0.10
		2003 02 (Summer)		< 50.0	< 50.0	103	< 4.0	0.56 J	< 10.0	2.4 J	< 10.0	< 10.0	**7,900**	< 0.40	< 50.0	1.9 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**9,360**	**409**	1,110	< 244	6,420 J	< 0.10
		2002 04 (Winter)		< 50.0	< 5.0	**130**	< 2.0	< 5.0	< 10.0	3.3 J	**9.8 J**	0.077 J	**7,800**	< 0.20	3.5 J	**13.0 J**	**58.0**	< 5.0	< 2.0	3.6 J	< 20.0	3.5 J	**9,200**	370	1,000	230	7,000	< 0.010
		2002 02 (Summer)		0.13 J	< 5.0	**130**	< 50.0	0.089 J	**7.9 J**	2.5 J	4.6 J	< 3.0	**7,300**	0.061 J	< 20.0	5.8 J	< 5.0	**3.0 J**	< 2.0	2.4 J	< 20.0	< 2,500	**7,300**	370	1,000	210	6,900	< 0.010
SWBZ	M025-C	2006 01 (Spring)		< 1.0	5.1	**320**	< 2.0	< 5.0	< 10.0	0.41 J	< 10.0	< 3.0	**2,000**	< 0.20	< 20.0	< 20.0	< 5.0	**3.0 J**	**4.4 J**	< 10.0	3.2 J	43.0 J	**7,000**	110	190	68.0	1,100	-
		2005 02 (Summer)		< 1.0	6.3	**320**	< 2.0	< 5.0	1.8 J	0.46 J	0.99 J	< 3.0	**2,000**	< 0.20	0.56 J	2.1 J	**2.9 J**	< 5.0	0.74 J	0.85 J	**33.0**	25.0 J	**8,500**	110	180	58.0	1,100	< 0.010
		2005 01 (Spring)		< 1.0	4.6 J	**270**	< 2.0	< 5.0	0.96 J	< 1.0	< 10.0	< 3.0	**1,800**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	**19.0 J**	**110 J**	**6,800**	94.0	190 J	69.0	1,200	< 0.010
		2004 04 (Winter)		< 1.0	5.5	**270**	< 2.0	< 5.0	1.1 J	0.36 J	1.2 J	0.10 J	**1,900**	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 5.0	0.73 J	7.5 J	3.8 J	**6,900**	96.0	170	57.0	980	< 0.010
		2004 02 (Summer)		< 1.0	< 2.2	**260**	< 1.0	< 1.0	< 1.4 UJ	0.53 J	1.5	< 1.0	**2,000**	< 0.20	0.59 J	1.3	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	**7,300**	110	190	66.0	1,300	< 0.010
		2004 01 (Spring)		< 5.0	< 50.0	**230**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,770**	< 1.0	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**6,820**	94.5	172	64.4 J	1,120	< 0.10
		2003 04 (Winter)		< 5.0	**10.5 J**	**435**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2,430**	**0.25 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**11,500**	140	238	80.7	1,420	< 0.10
		2003 03 (Fall)		< 5.0 UJ	< 50.0 UJ	**406**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2,310**	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**9,820**	131	234	130 J	434	< 0.10
		2003 02 (Summer)		< 50.0	**8.7 J**	**337**	< 4.0	< 5.0	< 10.0	< 10.0	1.0 J	< 10.0	**2,030**	< 0.40	< 50.0	1.6 J	< 20.0	< 10.0	< 50.0	< 50.0	2.8 J	< 200	**8,620**	110	185	59.6	950 J	< 0.10
		2003 01 (Spring)		< 1.0	7.5	**300**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**1,900**	< 0.20	< 20.0	< 20.0	**2.4 J**	< 5.0	< 1.0	< 10.0	0.99 J	< 100	**8,300**	110	190	61.0 J	1,200	< 0.010
		2002 04 (Winter)		< 50.0	5.3	**380**	< 2.0	< 5.0	< 10.0	0.50 J	1.1 J	0.051 J	**2,400**	< 0.20	1.3 J	2.4 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**8,900**	130	220	73.0	1,400	< 0.010
		2002 03 (Fall)		0.082 J	5.7	**230**	< 2.0	< 5.0	< 10.0	0.48 J	< 10.0	< 3.0	**2,000**	< 0.20	1.2 J	2.1 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	**3,100**	110	190	63.0	1,200	< 0.010
		2002 02 (Summer)		< 50.0	4.5 J	**280**	< 2.0	< 5.0	**10.0 J**	< 10.0	0.95 J	< 3.0	**2,000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	2.3 J	< 26.0	< 100	**6,300**	100	200	66.0	1,300	< 0.010
	M027-B	2006 01 (Spring)		< 1.0	**53.0**	**480**	< 2.0	< 5.0	< 10.0	0.59 J	< 10.0	< 3.0	**5,800**	**0.11 J**	2.2 J	< 20.0	< 5.0	**4.9 J**	**10.0**	< 10.0	< 20.0	< 100	**11,000**	280	590	72.0	3,200	-
		2005 02 (Summer)		0.26 J	**42.0**	**470**	< 2.0	< 5.0	0.79 J	0.51 J	1.7 J	< 3.0	**5,000**	< 0.20	< 20.0	3.7 J	**6.3**	< 5.0	< 5.0	0.40 J	**30.0**	< 100	**19,000**	230	480	52.0	3,100	< 0.010
		2004 04 (Winter)		< 1.0	**33.0**	**490**	< 2.0	< 5.0	< 10.0	0.73 J	3.2 J	0.35 J	**5,800**	< 0.20	< 20.0	3.4 J	< 5.0	< 5.0	< 5.0	< 10.0	**12.0 J**	< 100	**16,000**	270	570	65.0	3,300	< 0.010
		2004 02 (Summer)		0.090 J	**34.0**	**460**	< 1.0	< 1.0	< 1.3	0.87 J	2.5	0.050 J	**5,700**	< 0.20	< 5.0	4.1	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	**17,000**	310	650	68.0	3,900	< 0.010
		2003 04 (Winter)		< 5.0	**39.7 J**	**431**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**5,310**	< 0.40	**14.0 J**	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**14,700**	265	592	79.2	3,540	< 0.10
		2003 02 (Summer)		< 50.0	**48.3 J**	**487**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**5,320**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**12,800**	277	567	54.2 J	2,780	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
SWBZ	M027-B	2002 04 (Winter)	< 50.0	**42.0**	**400**	< 2.0	< 5.0	< 10.0	0.53 J	2.2 J	0.036 J	**4,600**	< 0.20	2.1 J	2.6 J	**18.0**	< 5.0	< 2.0	< 10.0	< 20.0	4.5 J	**9,700**	230	490	54.0	2,800	< 0.010
		2002 02 (Summer)	< 50.0	**40.0**	**500**	< 2.0	< 5.0	**5.6 J**	< 10.0	2.6 J	< 3.0	**5,600**	< 0.20	< 20.0	< 20.0	< 5.0	0.92 J	< 2.0	1.3 J	**260**	< 100	**11,000**	260	550	63.0	3,000	< 0.010
	M027-C	2006 01 (Spring)	< 1.0	**16.0**	79.0	< 2.0	< 5.0	< 10.0	1.0	< 10.0	< 3.0	**6,900**	< 0.20	2.3 J	< 20.0	< 5.0	**6.3**	**10.0**	< 10.0	< 20.0	< 100	**2,500**	360	760	69.0	3,600	-
		2005 02 (Summer)	0.30 J	**9.8**	92.0	< 2.0	< 5.0	0.95 J	0.99 J	2.9 J	< 3.0	**6,700**	< 0.20	< 20.0	4.8 J	**12.0**	< 5.0	< 5.0	0.54 J	**50.0**	< 100	**5,100**	**410**	780	91.0	3,800	< 0.010
		2004 04 (Winter)	< 1.0	< 5.0	80.0 J	< 2.0	< 5.0	< 10.0	1.3	**4.4 J**	0.37 J	**6,900**	0.065 J	< 20.0	4.3 J	< 5.0	< 5.0	< 5.0	< 10.0	**17.0 J**	< 100	**2,700**	**400**	830	100	4,500	< 0.010
		2004 02 (Summer)	0.18 J	< 1.0	80.0	< 1.0	< 1.0	< 1.5	1.8	6.2	0.078 J	**6,800**	< 0.20	< 5.0	7.3	< 1.0	< 1.0	< 1.0	6.7 J	< 1.0	< 50.0	**3,800**	**420**	880	110	4,500	< 0.010
		2003 04 (Winter)	< 5.0	5.9 J	73.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6,190**	**0.25 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**2,880**	**382**	837	123	4,520	< 0.10
		2003 02 (Summer)	< 50.0	**8.7 J**	72.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6,280**	< 0.40	< 50.0	1.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**2,220**	378	780	83.9	3,510 J	< 0.10
		2002 04 (Winter)	< 50.0	**11.0**	88.0	< 2.0	< 5.0	< 10.0	1.3 J	2.7 J	0.090 J	**6,400**	< 0.20	2.2 J	3.4 J	**22.0**	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**3,200**	370	780	87.0	4,000	< 0.010
		2002 02 (Summer)	< 50.0	6.0	75.0 J	< 2.0	< 5.0	**3.6 J**	< 10.0	2.8 J	< 3.0	**6,100**	< 0.20	< 20.0	< 20.0	< 5.0	**3.5 J**	< 2.0	1.1 J	< 20.0	< 100	**2,500**	**390**	830 J	95.0	4,200	< 0.010
	M028-C	2006 01 (Spring)	0.11 J	**17.0**	**140**	0.44 J	< 5.0	0.95 J	1.2	1.8 J	< 3.0	**6,600**	**0.11 J**	1.1 J	< 20.0	< 5.0	**3.5 J**	2.1 J	< 10.0	< 20.0	< 100	**5,900**	**670**	1,000	120	5,800	-
		2005 02 (Summer)	0.25 J	**9.8**	**170**	< 2.0	< 5.0	< 10.0	0.75 J	1.8 J	< 3.0	**6,500**	< 0.20	1.7 J	3.9 J	**20.0**	< 5.0	< 5.0	0.37 J	**53.0**	< 100	**8,900**	**570**	910	100	5,600	< 0.010
		2005 01 (Spring)	< 1.0	**9.9**	**150**	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	**6,200**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	6.7 J	86.0 J	**5,600**	**600**	1,000 J	140	5,800	< 0.010
		2004 04 (Winter)	0.071 J	< 5.0	**230**	< 2.0	< 5.0	0.38 J	0.89 J	**5.5 J**	0.48 J	**6,600**	< 0.20	1.6 J	5.1 J	< 5.0	< 5.0	< 5.0	< 10.0	**23.0**	0.96 J	**5,900**	**640 J**	930 J	110	5,600	< 0.010
		2004 02 (Summer)	< 1.0	< 1.0	**180**	< 1.0	< 1.0	< 10.0	1.2	6.1	0.60 J	**6,100**	< 0.20	< 5.0	**8.2**	< 1.0	< 1.0	< 1.0	< 100	< 200	< 50.0	**8,500**	**610**	900	120	5,600	< 0.010
		2004 01 (Spring)	< 5.0	< 50.0	**133**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**5,960**	< 1.0	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**5,830**	**480**	1,090	129 J	6,140	< 0.10
		2003 04 (Winter)	< 5.0	< 50.0	**164**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**5,560**	< 0.40	**12.2 J**	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**5,420**	**476**	880	135	5,710	< 0.10
		2003 03 (Fall)	< 25.0 UJ	**14.5 J**	**249**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6,670**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**5,760**	**635**	984	112 J	4,930 J	< 0.10
		2003 02 (Summer)	< 50.0	**16.5 J**	**184**	< 4.0	0.54 J	< 10.0	< 10.0	< 10.0	< 10.0	**6,870**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**6,230**	**598**	1,020	117 J	5,040	< 0.10
		2003 01 (Spring)	< 1.0	< 5.0	**200**	< 2.0	< 5.0	< 10.0	< 10.0	3.1 J	< 3.0	**6,800**	< 0.20	< 20.0	4.7 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	< 100	**7,700**	**620**	1,100	100	5,800	< 0.010
		2002 04 (Winter)	< 50.0	**15.0 J**	< 270	< 2.0	< 5.0	< 10.0 UJ	0.47 J	**3.3 J**	0.035 J	**6,500**	< 0.20	1.5 J	2.7 J	**28.0 J**	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	**6,100 J**	**660**	950	110	5,600	< 0.010
		2002 03 (Fall)	< 50.0	< 5.0	**200**	< 2.0	< 5.0	< 10.0	0.59 J	< 10.0	< 3.0	**5,400**	< 0.20	2.1 J	3.7 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**7,200**	**620**	940	100	5,300	< 0.010
		2002 02 (Summer)	< 50.0	0.52 J	**150**	< 2.0	< 5.0	2.9 J	< 10.0	**4.2 J**	< 3.0	**6,100**	< 0.20	< 20.0	< 20.0	< 5.0	1.5 J	< 2.0	1.3 J	< 20.0	< 100	**6,300**	**530**	1,000	110	5,700	< 0.010
	M030-C	2006 01 (Spring)	< 1.0	**16.0**	55.0	0.43 J	< 5.0	2.3 J	0.99 J	1.9 J	< 3.0	**5,700**	< 0.20	3.8 J	< 20.0	< 5.0	**4.0 J**	**4.5 J**	< 10.0	< 20.0	< 100	490	**390**	1,100	180	8,600	-
		2005 02 (Summer)	< 1.0	2.1 J	62.0	< 2.0	< 5.0	0.91 J	0.88 J	**3.6 J**	< 3.0	**5,700**	< 0.20	3.9 J	4.7 J	**33.0 J**	< 5.0	< 5.0	0.27 J	**100**	4.8 J	**1,700**	360	960	160	8,000	< 0.010
		2004 04 (Winter)	< 1.0	< 5.0	57.0	< 2.0	< 5.0	0.37 J	0.92 J	**5.3 J**	0.34 J	**4,800**	< 0.20	4.1 J	4.9 J	< 5.0	< 5.0	< 5.0	< 10.0	**19.0 J**	1.2 J	1,300	370 J	1,100 J	180	8,800	< 0.010
		2004 02 (Summer)	0.15 J	< 1.0	58.0	< 1.0	< 1.0	2.1	1.2	3.8	0.56 J	**5,000**	< 0.20	< 5.0	**9.2**	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	**1,700**	380	1,100	190	8,400	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	51.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**3,580**	< 0.40	**26.0 J**	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	435	332	962	225	8,750	< 0.10
		2003 02 (Summer)	< 50.0	6.6 J	62.0 J	< 4.0	0.63 J	< 10.0	1.9 J	< 10.0	< 10.0	**4,680**	< 0.40	**6.7 J**	2.5 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	514	**430**	1,150	202 J	7,260	< 0.10
		2002 04 (Winter)	< 50.0	< 5.0	69.0	< 2.0	< 5.0	< 10.0	1.5 J	**9.1 J**	0.071 J	**3,500**	< 0.20	4.9 J	**9.1 J**	**54.0**	< 5.0	< 2.0	4.4 J	< 20.0	4.9 J	**2,100**	370	980	170	7,700	< 0.010
		2002 02 (Summer)	< 50.0	< 5.0	53.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**3,900**	**0.27**	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	6.8 J	< 20.0	< 100 UJ	370	**390**	1,000	150	8,100	-
	M031-C	2006 01 (Spring)	< 1.0	**9.6**	**150**	0.36 J	< 5.0	1.4 J	0.89 J	1.8 J	< 3.0	**6,200**	< 0.20	0.88 J	< 20.0	1.9 J	**3.0 J**	< 5.0	< 10.0	< 20.0	< 100	**2,700**	**520**	950	100	5,400	-
		2005 02 (Summer)	0.11 J	5.2	**180**	< 2.0	0.16 J	< 10.0	0.80 J	1.4 J	0.29 J	**5,900**	< 0.20	1.0 J	3.5 J	**16.0**	< 5.0	< 5.0	0.36 J	**48.0**	< 100	**5,100**	**480**	810	96.0	5,000	< 0.010
		2004 04 (Winter)	< 1.0	< 5.0	**170**	< 2.0	< 5.0	< 10.0	0.92 J	**5.3 J**	0.18 J	**6,400**	< 0.20	< 20.0	4.8 J	< 5.0	< 5.0	< 5.0	< 10.0	**29.0**	< 100	**2,700**	**540**	920	120	5,600	< 0.010
		2004 02 (Summer)	0.18 J	< 1.0	120	< 1.0	< 1.0	< 1.4 UJ	1.0	5.8	0.20 J	**5,900**	< 0.20	1.1 J	4.3	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	**2,600**	**510**	900	100	5,600	< 0.010
		2003 04 (Winter)	< 5.0	< 50.0	**126**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**5,330**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**2,110**	**449**	830	129	3,440	< 0.10
		2003 02 (Summer)	< 50.0	**8.3 J**	**130**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**7,090**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**2,980**	**582**	1,060	124 J	5,040	< 0.10
		2002 04 (Winter)	< 50.0	**9.7 J**	99.0	< 2.0	< 5.0	< 10.0 UJ	0.64 J	2.6 J	0.048 J	**6,800**	< 0.20	1.4 J	3.8 J	**27.0 J**	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	**2,400 J**	**510**	960	110	6,200	< 0.010

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-5

Groundwater Sample Analytical Results at IR Sites 1 and 32: Dissolved Metals and Total Cyanide

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
GWBL	M031-C	2002 02 (Summer)		< 50.0	0.94 J	92.0	< 2.0	< 5.0	2.8 J	< 10.0	3.6 J	< 3.0	**5,700**	< 0.20	< 20.0	< 20.0	< 5.0	1.6 J	< 2.0	1.1 J	**470**	< 100	**2,900**	**450**	860	100	5,000	< 0.010

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 3-6

Groundwater Sample Analytical Results at IR Sites 1 and 32: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M001-A	2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M002-A	2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M003-A	2006 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M025-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-6

Groundwater Sample Analytical Results at IR Sites 1 and 32: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M025-A	2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M027-A	2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 04 (Winter)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M028-A	2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M028-E	2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M030-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-6

Groundwater Sample Analytical Results at IR Sites 1 and 32: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.50**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.030**
FWBZ	M030-A	2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-7

Groundwater Sample Analytical Results at IR Sites 1 and 32: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																				
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M001-A	2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M002-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M003-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M025-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	**0.0070 J**	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	**0.014 J**	**0.083**	< 0.040	**0.015 J**	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M027-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	**0.020 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M028-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	**0.030 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	**0.030 J**	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	**0.050 J**	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	**0.040 J**	< 0.050	**0.010 J**	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.0060 J**	**0.020 J**	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	**0.098**	**0.015 J**	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M028-E	2006 01 (Spring)	**0.010 J**	< 0.050	**0.020 J**	**0.030 J**	**0.0090 J**	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	**0.0060 J**	< 0.050	< 0.10	< 0.10	**0.030 J**	< 0.10	< 0.10	< 0.050	**0.0030 J**	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	**0.020 J**	< 0.050	< 0.050	< 0.050	**0.030 J**	**0.010 J**	< 0.10	< 0.10	< 0.10	**0.040 J**	< 0.050	< 0.10	**0.030 J**	< 0.10	< 0.10	**0.020 J**	< 0.050	**0.080**	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	**0.060 J**	< 0.050	< 0.050	< 0.050	< 0.050	**0.020 J**	< 0.10 UJ	**0.020 J**	**0.020 J**	**0.020 J**	< 0.050	< 0.10 UJ	**0.020 J**	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	**0.0070 J**	< 0.050	< 0.50 UJ	< 1.0 UJ

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 3-7

Groundwater Sample Analytical Results at IR Sites 1 and 32: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																				
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M028-E	2004 04 (Winter)	< 0.050	**0.030 J**	**0.020 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	**0.080 J**	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050 J	**0.060**	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	**0.040 J**	**0.030 J**	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.010 J**	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	**0.14**	**0.084**	**2.4**	**0.054**	**0.031 J**	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	**0.069 J**	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
	M030-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	**0.070 J**	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M001-A	2005 02 (Summer)	< 3.0 UJ	**10.2 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**11.8**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**12.6 J**	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.2	**12.6**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.2	< 750	< 10.0
		2004 01 (Spring)	< 0.96	**14.4**	< 0.14	< 0.82	-	< 5.4	-	< 0.78	< 87.1	< 20.8	< 33.7	< 7.0	< 5.1	< 177	< 577	< 108	**0.069**	< 0.030	**0.088**	< 9.7	< 335	< 8.8
		2003 04 (Winter)	< 1.5	**22.9**	< 0.60	< 3.7	-	-	-	< 2.2	< 373	< 66.9	< 127	< 21.3	< 48.3	< 173	< 1,310	< 228	-	-	-	**95.9**	< 652	**74.7**
		2003 03 (Fall)	< 2.4	**30.2**	**1.2**	< 2.8	**1.2**	-	-	< 2.0	< 192	< 30.8	< 134	< 36.5	< 52.2	< 183	< 2,340	< 242	-	-	-	< 40.0	< 115	< 35.2
		2003 02 (Summer)	< 2.3	**21.1**	< 1.8	< 3.7	-	-	-	< 2.2	**597**	< 78.8	< 208	< 18.8	< 27.8	< 178	< 1,970	< 102	-	-	-	**54.5**	< 744	< 44.5
		2003 01 (Spring)	< 2.3 UJ	**15.2**	< 1.4	< 5.7	-	-	-	< 1.8	< 268	< 52.0	< 197	< 27.0	< 24.0	< 183	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.87 UJ	**11.4**	< 0.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**1.8**	**37.3**	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.5	**11.0**	< 0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M001-E	2006 01 (Spring)	**2.3 J**	**47.4 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	**27.5**	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.040 J**	-	**0.030 J**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	**1.8 J**	**11.7 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**28.8**	**0.17 J**	< 5.0	**0.17**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 5.7	**11.4 J**	**0.20 J**	< 5.0 UJ	**0.20**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**21.7**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 2.4	**44.3**	< 1.0	< 1.1	-	-	-	< 2.2	**217**	< 30.3	< 86.3	< 10.0	< 25.1	< 184	< 983	< 64.5	-	-	-	**31.6**	< 260	< 12.0
		2003 04 (Winter)	< 2.9	**48.9**	< 0.98	< 4.4	-	-	-	< 2.4	**573**	< 32.9	< 143	< 29.3	< 46.2	< 169	< 1,210	< 309	-	-	-	**76.4**	< 771	**42.5**
		2003 03 (Fall)	< 4.2	**47.2**	< 0.61	< 3.7	-	-	-	< 2.2	< 233	< 61.5	< 215	< 36.1	< 53.1	< 182	< 1,680	< 51.0	-	-	-	< 24.3	< 311	< 42.4
		2003 02 (Summer)	< 4.2	**36.2**	< 1.0	**5.3**	**5.3**	-	-	< 2.7	**280**	< 49.5	< 177	< 33.6	< 38.8	< 168	< 1,130	< 61.0	-	-	-	< 74.2	< 725	< 26.9
		2003 01 (Spring)	< 3.8 UJ	**38.5**	< 1.1	< 4.4	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 181	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 3.0 UJ	**40.1**	< 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**1.2**	**29.9**	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 3.5	**2.1**	< 0.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M002-A	2006 01 (Spring)	< 3.0 UJ	**8.0**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.92**	-	**1.1**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**37.1**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	**2.5 J**	**25.4**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 5.1	**8.9 J**	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	**6.7**	**20.8**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**1.3**	-	**0.86**	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 1.6	**13.9**	< 0.17	< 0.90	-	< 8.0	-	< 0.37	< 126	< 32.7	< 56.4	< 10.4	< 7.4	< 177	< 922	< 157	**1.3**	< 0.23	**1.1**	< 13.6	< 513	< 12.7
		2003 04 (Winter)	< 1.0	**11.5**	< 0.64	< 3.4	-	-	-	< 1.9	< 231	< 47.0	< 138	< 19.5	< 23.3	< 170	< 1,930	< 315	-	-	-	**78.2**	< 633	**58.5**
		2003 03 (Fall)	< 6.0	**36.5**	< 0.77	< 3.8	-	-	-	< 1.9	< 330	< 73.8	< 202	< 20.8	< 53.0	< 182	< 1,490	< 90.0	-	-	-	< 65.9	< 253	< 39.4
		2003 02 (Summer)	< 3.4	**21.5**	< 1.3	< 5.1	-	-	-	< 2.0	< 274	< 23.0	< 152	< 14.5	< 40.5	< 184	< 1,410	< 201	-	-	-	**51.9**	< 707	< 40.1
		2003 01 (Spring)	< 2.5 UJ	**14.3**	< 1.2	< 5.0	-	-	-	< 1.7	< 201	< 52.0	< 197	< 27.0	< 24.0	< 181	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 2.7 UJ	**12.2**	< 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**3.6**	**29.0**	< 0.67 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**3.3**	**22.8**	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	**NA**	**NA**	**5.0**	**NA**	**NA**	**8.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**20,000**	**NA**	**NA**	**NA**	**20.0**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M003-A	2006 01 (Spring)	< 3.0 UJ	**6.2 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.36**	-	**0.40**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**6.6 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**9.3**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**4.3 J**	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**4.8**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.38	**4.8**	< 0.23	< 0.88	-	< 4.9	-	< 0.77	< 49.0	< 17.3	< 31.3	< 7.1	< 4.5	< 174	< 517	< 90.0	**0.40**	< 0.028	**0.41**	< 9.1	< 87.2	< 9.3
		2003 04 (Winter)	< 0.58 UJ	**5.4**	< 0.57	< 3.2	-	-	-	< 1.9	< 193	< 56.1	< 94.9	< 26.4	< 45.6	< 174	< 1,130	< 287	-	-	-	< 6.0	< 633	< 31.2
		2003 03 (Fall)	< 1.2	**5.8**	< 0.74	< 4.2	-	-	-	< 1.9	< 225	< 74.0	< 229	< 36.7	< 37.4	< 182	< 1,660	< 140	-	-	-	< 49.5	< 300	< 37.4
		2003 02 (Summer)	< 1.0	**4.2**	< 1.1	< 3.4	-	-	-	< 1.8	< 266	< 46.7	< 164	< 19.4	< 45.3	< 190	< 1,470	< 48.4	-	-	-	**61.8**	< 585	< 27.1
		2003 01 (Spring)	< 2.2 UJ	**4.0**	< 0.93	< 3.9	-	-	-	< 2.3	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	**1.4 J**	**2.0**	< 0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**2.9**	**3.6**	< 0.68 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**3.3**	**5.4**	< 0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M004-A	2005 02 (Summer)	< 3.0	**19.5**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**15.7 J**	< 0.50	**2.6 J**	**2.6**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**15.7**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.57	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 1.7	**18.8**	< 1.1	< 4.3	-	-	-	< 2.2	< 296	< 56.2	< 108	< 16.8	< 41.2	< 170	< 1,020	< 349	-	-	-	**66.5**	< 691	< 48.8
		2003 02 (Summer)	< 1.7	**17.6**	< 1.6	< 3.2	-	-	-	< 2.0	**433**	< 54.5	< 218	< 26.7	< 32.7	< 209	< 1,340	< 134	-	-	-	< 60.3	< 692	< 36.8
		2002 04 (Winter)	**2.1 J**	**13.6**	< 0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.8**	**19.3**	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M005-A	2006 01 (Spring)	< 3.0	**21.6**	**0.29 J**	< 5.0	**0.29**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	**0.19 J**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**16.2 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**19.3**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**31.5 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	M006-A	2006 01 (Spring)	< 3.0 UJ	**11.8 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.23**	-	**0.33**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**13.1**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**13.7 J**	< 0.50	**2.2 J**	**2.2**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**7.2**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 1.6	**15.2**	< 0.57	< 2.7	-	-	-	< 2.0	< 148	< 60.3	< 164	< 13.1	< 30.2	< 171	< 1,240	< 319	-	-	-	**58.2**	< 535	< 17.4
		2003 02 (Summer)	< 1.2	**12.9**	< 2.1	< 3.9	-	-	-	< 2.3	**448**	< 43.1	< 127	< 26.3	< 51.9	< 186	< 1,840	< 29.3	-	-	-	< 31.0	< 632	< 47.7
		2002 04 (Winter)	< 1.5 UJ	**14.5**	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.7**	**9.9**	< 0.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M007-A	2005 02 (Summer)	< 3.0 UJ	**9.4 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**6.2 J**	< 0.50	**2.9 J**	**2.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**5.7**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 0.77	**11.2**	**1.5**	< 4.1	**1.5**	-	-	< 2.0	< 301	< 54.2	< 194	< 19.9	< 44.0	< 170	< 1,380	< 196	-	-	-	**62.2**	< 606	< 33.8
		2003 02 (Summer)	< 1.2	**9.3**	< 1.7	< 3.2	-	-	-	< 2.2	< 301	< 40.8	< 110	< 32.4	< 50.7	< 182	< 1,560	< 217	-	-	-	**50.6**	< 636	< 28.0
		2002 04 (Winter)	< 0.91 UJ	**7.7**	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M007-A	2002 02 (Summer)	< 4.9	**12.5**	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M025-A	2006 01 (Spring)	< 3.0 UJ	**9.2**	**0.65**	< 5.0	**0.65**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.097 J**	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**47.3**	**2.1**	< 5.0	**2.1**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 27.7	**102**	**0.95**	< 5.0	**0.95**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 10.3 UJ	**28.0**	**1.8**	< 5.0	**1.8**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 968	< 10.0
		2003 04 (Winter)	< 11.9 UJ	**77.3**	**1.6**	< 3.5	**1.6**	-	-	< 2.2	< 148	< 59.5	< 102	< 19.2	< 46.2	< 175	< 1,740	< 211	-	-	-	< 12.0	< 699	< 43.6
		2003 02 (Summer)	< 3.8	**29.2**	**3.7**	< 4.0	**3.7**	-	-	< 2.3	**865**	< 26.3	< 203	< 27.5	< 28.7	< 144	< 323	< 84.5	-	-	-	**45.7**	< 628	< 22.5
		2002 04 (Winter)	< 18.9 UJ	**95.5**	< 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**1.3**	< 130	< 0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M026-A	2006 01 (Spring)	< 3.0 UJ	**25.9 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.23**	-	**0.16 J**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**179**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 39.5	**121 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 34.0	**210**	< 0.17	< 0.77	-	< 9.6	< 11.6	< 0.64	< 200	< 49.0	< 134	< 16.7	< 12.1	< 380	-	< 103	**0.73**	< 0.20	**0.61**	< 23.0 UJ	-	< 22.0 UJ
		2003 04 (Winter)	< 64.1 UJ	**243**	< 0.56	< 3.5	-	-	-	< 1.9	< 21.0	< 52.2	< 95.5	< 37.1	< 36.0	< 173	< 1,660	< 214	-	-	-	< 5.0	< 695	< 36.2
		2003 02 (Summer)	< 45.0	**190**	< 2.1	< 3.8	-	-	-	< 2.0	< 271	< 32.4	< 148	< 29.2	< 63.1	< 178	< 1,800	< 2.2	-	-	-	< 44.0	< 820	< 32.1
		2002 04 (Winter)	< 10.0 UJ	**59.5**	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 9.9	**271**	< 0.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M026-E	2005 02 (Summer)	< 3.0	**52.1**	**0.33 J**	< 5.0	**0.33**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 29.4	**106 J**	**0.48 J**	< 5.0	**0.48**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 9.6	**40.0**	< 0.18	< 0.81	-	< 7.9	< 9.2	< 0.49	< 120	< 31.0	< 114	< 12.8	< 7.2	< 380	-	< 126	< 0.20	< 0.20	< 0.20	< 22.0 UJ	-	< 20.0 UJ
		2003 04 (Winter)	< 55.8	**188**	< 0.98	< 4.4	-	-	-	< 1.8	< 228	< 52.5	< 212	< 16.3	< 54.2	< 169	< 1,710	< 0.0000	-	-	-	**59.5**	< 650	< 31.3
		2003 02 (Summer)	< 7.6	**40.2**	< 2.5	< 3.7	-	-	-	< 2.0	**809**	< 55.1	< 106	< 25.8	< 46.4	< 180	< 1,040	< 180	-	-	-	**48.5**	< 699	< 53.1
		2002 04 (Winter)	< 38.3 UJ	**150**	**1.4**	-	**1.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.99	**64.3**	**0.87**	-	**0.87**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M027-A	2006 01 (Spring)	< 3.0	**31.0**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	**0.10 J**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**44.7**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**37.4**	**0.24 J**	< 5.0	**0.24**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 4.2	**33.7 J**	**0.27 J**	< 5.0	**0.27**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 5.4	**20.6**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 2.7	**48.4**	**0.24**	< 0.83	**0.24**	< 3.0	-	< 0.64	< 34.5	< 11.6	< 22.8	< 4.8	< 3.0	< 170	< 352	< 61.0	**0.21**	< 0.025	**0.14**	< 5.8	**106**	< 6.2
		2003 04 (Winter)	< 5.6 UJ	**44.1**	**0.80**	< 4.0	**0.80**	-	-	< 2.1	**443**	< 53.9	< 112	< 26.9	< 35.3	< 176	< 2,100	< 115	-	-	-	< 14.0	< 703	< 32.7
		2003 03 (Fall)	< 3.2	**47.5**	**1.2**	< 3.8	**1.2**	-	-	< 1.9	< 213	< 37.8	< 154	< 34.0	< 25.5	< 181	< 1,970	< 69.0	-	-	-	< 14.0	< 199	< 43.8
		2003 02 (Summer)	< 4.4	**41.2**	< 3.2	< 3.5	-	-	-	< 2.2	< 214	< 50.4	< 207	< 26.3	< 49.8	< 188	< 1,400	< 109	-	-	-	< 49.3	< 692	< 23.3
		2003 01 (Spring)	< 5.7 UJ	**40.6**	< 1.3	< 5.3	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 179	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.8 UJ	**33.5**	< 1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**1.9**	**58.1**	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**7.5**	**30.2**	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M028-A	2006 01 (Spring)	< 3.0 UJ	**15.6 J**	**0.45 J**	< 5.0	**0.45**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M028-A	2005 02 (Summer)	**1.3 J**	**30.7**	**0.75**	< 5.0	**0.75**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**31.1**	**0.73**	< 5.0	**0.73**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**24.1 J**	**0.60**	< 5.0 UJ	**0.60**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**31.6**	< 0.54	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.92	**20.3**	**0.50**	< 0.86	**0.50**	< 2.3	-	< 0.66	< 32.8	< 9.7	< 18.7	< 3.4	< 2.3	< 169	< 295	< 63.8	< 0.028	< 0.026	< 0.034	< 4.2	< 277	< 4.1
		2003 04 (Winter)	< 1.5 UJ	**28.6**	**1.3**	< 3.4	**1.3**	-	-	< 1.7	< 103	< 52.4	< 159	< 23.1	< 12.0	< 173	< 1,250	< 267	-	-	-	< 15.8	< 532	< 22.7
		2003 03 (Fall)	**4.6**	**49.8**	**1.5**	< 3.5	**1.5**	-	-	< 2.6	< 205	< 72.4	< 220	< 17.0	< 58.8	< 160	< 1,760	< 292	-	-	-	< 37.2	< 363	< 43.6
		2003 02 (Summer)	< 1.1	**29.7**	< 1.0	< 2.9	-	-	-	< 1.6	**413**	< 53.4	< 152	< 17.5	< 83.6	< 179	< 1,530	< 131	-	-	-	< 42.0	< 731	< 32.6
		2003 01 (Spring)	< 1.6 UJ	**23.4**	**1.9**	< 4.3	**1.9**	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 178	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.2 UJ	**22.6**	< 0.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**2.9**	**44.3**	**0.87 J**	-	**0.87**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.8	**30.1**	**0.67**	-	**0.67**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M028-E	2006 01 (Spring)	< 3.0	**28.7**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	**47.9 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**44.9**	**0.19 J**	< 5.0	**0.19**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**35.5**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.1	**30.1 J**	**0.24 J**	< 5.0 UJ	**0.24**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 4.5	**39.9**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 1.0	**35.5**	**0.16**	**1.9**	**2.0**	< 3.6	-	< 0.78	< 76.7	< 17.8	< 32.0	< 6.1	< 4.0	< 174	< 501	< 125	< 0.033	< 0.028	< 0.023	< 7.6	< 875	< 7.1
		2003 04 (Winter)	< 3.4 UJ	**41.3**	< 0.54	< 4.1	-	-	-	< 2.1	< 219	< 46.6	< 196	< 27.2	< 31.0	< 162	< 2,100	< 170	-	-	-	< 19.0	< 758	< 53.5
		2003 03 (Fall)	< 4.7	**52.3**	< 1.1	< 3.5	-	-	-	< 1.9	< 180	< 61.8	< 149	< 28.0	< 50.2	< 182	< 1,830	< 435	-	-	-	< 38.1	< 231	< 39.7
		2003 02 (Summer)	< 2.8	**47.0**	< 0.82	< 3.0	-	-	-	< 1.6	**610**	< 48.9	< 208	< 35.5	< 53.9	< 176	< 929	< 215	-	-	-	< 47.3	< 697	< 20.0
		2003 01 (Spring)	< 2.2 UJ	**40.0**	< 0.74	< 5.9	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 182	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.5 UJ	**36.3**	**0.94**	-	**0.94**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M029-A	2006 01 (Spring)	< 3.0 UJ	**19.7 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**13.9 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**18.0**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**14.0 J**	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	**8.9**	**24.7**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 1.6	**22.2**	< 0.96	< 0.98	-	-	-	< 2.0	< 132	< 22.6	< 75.0	< 8.9	< 23.4	< 181	< 868	< 108	-	-	-	**20.8**	< 264	**32.2**
		2003 04 (Winter)	< 2.0 UJ	**28.5**	< 0.63	< 3.8	-	-	-	< 2.3	< 396	< 51.6	< 53.4	< 11.0	< 54.3	< 179	< 1,940	< 271	-	-	-	< 28.0	< 672	< 41.4
		2003 03 (Fall)	< 1.1	**28.5 J**	< 1.2	< 4.1	-	-	-	< 1.8	< 90.0 UJ	< 68.5	< 26.1	< 19.5	< 22.9	< 219	< 1,490	< 162	-	-	-	< 66.6	< 525	< 44.6
		2003 02 (Summer)	< 1.4	**26.2**	< 1.00	< 2.8	-	-	-	< 1.7	**419**	< 58.2	< 87.6	< 22.0	< 32.6	< 180	< 2,170	< 113	-	-	-	< 83.4	< 634	< 19.7
		2003 01 (Spring)	< 1.9 UJ	**25.1**	< 0.94	< 3.9	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 179	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.4 UJ	**26.4**	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 7.2	**30.8**	< 0.38 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**0.93**	**15.1**	< 0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M029-E	2005 02 (Summer)	< 3.0	**16.4**	**0.51**	< 5.0	**0.51**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 4.0	**14.6 J**	**0.57**	< 5.0 UJ	**0.57**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M029-E	2004 02 (Summer)	**140**	**65.7**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 780	< 10.0
		2003 04 (Winter)	< 2.1 UJ	**26.9**	**1.0**	< 3.5	**1.0**	-	-	< 1.6	< 334	< 64.2	< 57.9	< 13.5	< 53.8	< 162	< 1,220	< 137	-	-	-	< 52.4	< 758	< 23.4
		2003 02 (Summer)	< 2.0	**23.5**	< 0.84	< 3.0	-	-	-	< 2.5	< 333	< 57.1	< 171	< 32.7	< 31.2	< 174	< 1,230	< 122	-	-	-	< 42.0	< 656	< 19.4
		2002 04 (Winter)	< 1.4 UJ	**22.1**	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.5	**9.5**	< 0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M030-A	2006 01 (Spring)	**2.3 J**	**51.4 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.63**	-	**0.35**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**5.7**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0 UJ	**4.5**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**3.8 J**	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**7.2**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.55	**5.5**	< 0.13	< 0.80	-	< 3.5	-	< 0.80	< 74.3	< 15.3	< 28.9	< 4.9	< 5.2	< 173	< 452	< 92.0	**0.31**	< 0.025	**0.18**	< 6.4	< 227	< 6.2
		2003 04 (Winter)	< 0.38	**4.3**	< 0.63	< 3.5	-	-	-	< 2.1	< 195	< 67.2	< 28.9	< 15.7	< 38.5	< 169	< 1,540	< 281	-	-	-	**71.9**	< 620	< 28.5
		2003 03 (Fall)	< 0.38	**6.9 J**	< 0.65	< 4.3	-	-	-	< 2.0	< 350 UJ	< 57.1	< 107	< 17.6	< 25.5	< 184	< 1,060	< 316	-	-	-	< 56.7	< 740	< 28.7
		2003 02 (Summer)	< 0.37	**6.3**	< 2.2	< 4.1	-	-	-	< 2.2	**701**	< 50.6	< 189	< 29.8	< 36.4	< 187	< 1,160	< 15.4	-	-	-	< 39.3	< 574	< 27.9
		2003 01 (Spring)	< 0.49 UJ	**4.4**	< 0.93	< 3.5	-	-	-	< 3.0	< 201	< 52.0	< 197	< 27.0	< 24.0	< 178	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.47 UJ	**3.0**	< 1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.9	**9.2**	< 0.68 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.81	**3.6**	< 0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M031-A	2006 01 (Spring)	< 3.0	**6.8**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.91**	-	**0.64**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**16.3**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	**10.8**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**13.0 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**13.8**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 784	< 10.0
		2004 01 (Spring)	< 0.73	**11.4**	< 1.2	< 1.0	-	-	-	< 1.8	< 61.9	< 21.6	< 95.6	< 10.7	< 25.7	< 184	< 807	< 82.8	-	-	-	< 11.3	< 238	< 15.9
		2003 04 (Winter)	**2.9 J**	**11.4**	< 0.72	< 3.6	-	-	-	< 1.7	< 375	< 77.5	< 172	< 17.4	< 33.5	< 159	< 1,920	< 107	-	-	-	< 17.0	< 764	**30.2**
		2003 03 (Fall)	< 0.68	**15.6 J**	< 0.92	< 4.1	-	-	-	< 1.9	< 182 UJ	< 58.9	< 154	< 21.8	< 46.4	< 183	< 1,160	< 234	-	-	-	< 52.6	< 567	< 35.2
		2003 02 (Summer)	< 0.83	**13.8**	< 0.78	< 3.5	-	-	-	< 1.8	**447**	< 57.1	< 109	< 21.3	< 52.5	< 187	< 1,550	< 35.2	-	-	-	< 35.5	< 742	< 28.3
		2003 01 (Spring)	< 0.56 UJ	**12.6**	< 1.1	< 3.6	-	-	-	< 1.9	< 237	< 52.0	< 197	< 27.0	< 24.0	< 175	< 1,190	< 184	-	-	-	< 122	< 602	< 34.0
		2002 04 (Winter)	< 0.79 UJ	**10.7**	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.5	**17.6**	< 0.64 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 1.7	**14.9**	< 0.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M032-A	2006 01 (Spring)	< 3.0	**10.0**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.27**	-	**0.24**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**15.5**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**15.0 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**12.1**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 1.3 UJ	**15.0**	< 0.45	< 3.6	-	-	-	< 2.4	< 198	< 59.9	< 98.2	< 18.7	< 26.0	< 173	< 1,790	< 233	-	-	-	< 0.41	< 678	< 34.4
		2003 02 (Summer)	< 1.4	**16.1**	< 0.78	< 2.8	-	-	-	< 1.7	**595**	< 78.2	< 121	< 36.4	< 36.2	< 180	< 1,640	< 174	-	-	-	< 48.5	< 744	< 33.6
		2002 04 (Winter)	< 7.3	**158**	< 0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)				Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)			
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)	
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M032-A	2002 02 (Summer)	**15.1**	**13.6**	< 0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M033-A	2006 01 (Spring)	< 3.0	**10.5**	< 0.50	**1.9 J**	**1.9**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**15.8**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	**8.1**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**10.5 J**	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**14.4**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.75	**12.8**	< 0.86	< 1.0	-	-	-	< 1.8	< 60.1	< 18.4	< 98.4	< 11.8	< 24.5	< 184	< 680	< 125	-	-	-	**21.6**	< 237	< 14.6
		2003 04 (Winter)	< 1.5 UJ	**15.1**	< 0.56	< 3.8	-	-	-	< 1.9	< 245	< 55.0	< 136	< 25.8	< 35.4	< 176	< 1,700	< 98.0	-	-	-	< 20.0	< 670	< 25.8
		2003 03 (Fall)	< 1.6	**21.0**	< 1.1	< 4.1	-	-	-	< 2.3	< 342	< 70.7	< 117	< 24.1	< 39.8	< 171	< 1,560	< 215	-	-	-	< 39.8	< 747	< 28.4
		2003 02 (Summer)	< 1.2	**14.9**	< 0.87	< 3.3	-	-	-	< 2.2	**482**	< 52.6	< 122	< 22.9	< 33.6	< 173	< 1,050	< 291	-	-	-	< 46.4	< 832	< 21.5
		2003 01 (Spring)	< 1.4 UJ	**15.3**	< 0.86	< 5.0	-	-	-	< 2.0	< 201	< 52.0	< 197	< 27.0	< 24.0	< 182	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.97 UJ	**15.9**	< 0.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 2.3	**11.7**	< 0.63 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**1.0**	**18.2**	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M034-A	2006 01 (Spring)	< 3.0 UJ	**22.2 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	**4.8 J**	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**29.4**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	**22.7**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**19.7 J**	< 0.50	< 5.0 UJ	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	**15.2**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.32	**4.1**	< 0.80	**1.6**	**1.6**	-	-	**4.4**	< 183	< 34.2	< 110	< 18.1	< 17.6	**811**	< 932	< 110	-	-	-	**23.8**	< 223	< 25.1
		2003 04 (Winter)	< 1.9 UJ	**24.1**	< 0.72	< 3.7	-	-	-	**5.0**	< 311	< 64.2	< 72.9	< 32.2	< 26.6	< 161	< 1,230	< 75.6	-	-	-	< 18.4	< 584	**52.3**
		2003 03 (Fall)	< 0.98	**26.7**	< 1.2	< 3.8	-	-	-	**5.3**	< 121	< 32.6	< 104	< 19.3	< 13.5	< 410	< 984	< 97.9	-	-	-	< 22.7	< 364	< 13.7
		2003 02 (Summer)	< 1.2	**30.4**	< 1.1	< 3.6	-	-	-	**4.8**	**873**	< 83.1	< 127	< 21.1	< 25.6	< 184	< 1,770	< 109	-	-	-	< 47.6	< 591	< 32.9
		2003 01 (Spring)	< 0.57 UJ	**15.4**	< 1.0	< 4.2	-	-	-	< 2.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 182	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 0.82	**18.3**	< 0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**29.3**	**27.7**	< 0.64 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.6**	**26.2**	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M035-A	2005 02 (Summer)	< 3.0	**7.8**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	**1.6 J**	**3.4**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	**1.3 J**	**7.9 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0 UJ	**5.0**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 1,130	< 10.0
		2004 01 (Spring)	< 2.4	< 3.5	< 0.80	< 0.76	-	-	-	< 1.6	**213**	< 25.5	< 84.9	< 9.8	< 21.5	< 184	< 981	< 86.9	-	-	-	< 18.1	< 260	**15.3**
		2003 04 (Winter)	< 0.78 UJ	**6.3**	< 0.64	< 3.9	-	-	-	< 2.1	< 271	< 29.7	< 71.5	< 29.2	< 23.0	< 174	< 1,130	< 275	-	-	-	< 17.0	< 684	**41.0**
		2003 03 (Fall)	< 0.87	**9.4**	< 0.75	< 3.7	-	-	-	< 1.8	< 281	< 51.3	< 163	< 47.4	< 65.0	< 182	< 2,400	< 179	-	-	-	< 52.7	< 285	< 55.2
		2003 02 (Summer)	< 2.6	**9.7**	< 0.86	< 2.7	-	-	-	< 2.0	**664**	< 59.3	< 172	< 35.3	< 33.2	< 181	< 2,340	< 114	-	-	-	< 27.8	< 513	< 40.0
		2003 01 (Spring)	< 1.3 UJ	**6.6**	< 0.74	< 4.2	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.2	**2.7**	**0.70**	-	**0.70**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.7	**8.7**	< 0.64 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
	MCL:		**15.0**	**50.0**	**NA**	**NA**	**5.0**	**NA**	**NA**	**8.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**20,000**	**NA**	**NA**	**NA**	**20.0**	**NA**	**NA**	**NA**	**NA**
	BV:		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
SWBZ	M035-A	2002 02 (Summer)		< 2.8	**9.6**	< 0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M001-B	2006 01 (Spring)		< 3.0 UJ	**377 J**	**0.84**	**3.4 J**	**4.3**	< 5.0	< 5.0	< 5.0	**62.1 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**3.7**	-	**3.1**	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0 UJ	< 3.0	**0.95**	**2.1 J**	**3.0**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 50.9	< 29.8	**0.86**	< 5.0 UJ	**0.86**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 40.7	< 32.1	**0.87**	< 5.0	**0.87**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**3.3**	-	**2.4**	< 10.0	< 931	< 10.0
		2003 04 (Winter)		< 31.9	**95.8**	**0.89**	< 6.1	**0.89**	-	-	< 2.0	< 385	< 50.2	< 145	< 20.4	< 39.0	< 170	< 1,240	< 325	-	-	-	**59.0**	< 660	< 31.6
		2003 02 (Summer)		< 62.4	< 88.3	**8.4**	< 4.3	**8.4**	-	-	< 1.7	< 276	< 11.5	< 155	< 26.0	< 52.0	< 184	< 2,040	< 32.1	-	-	-	< 31.9	< 705	< 43.1
		2002 04 (Winter)		< 44.5 UJ	< 67.4	**2.2**	-	**2.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		**12.0**	**139**	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M003-B	2006 01 (Spring)		< 3.0 UJ	**241**	**1.2**	< 5.0	**1.2**	< 5.0	< 5.0	< 5.0	**179**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.22**	-	**0.27**	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0	**144**	**0.83**	**2.7 J**	**3.5**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 52.9	**66.6 J**	**1.6**	< 5.0 UJ	**1.6**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 29.8	**93.2**	**1.2**	< 5.0	**1.2**	< 5.0	< 5.0	< 5.0	**216**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.59	-	< 0.50	< 10.0	< 1,030	< 10.0
		2003 04 (Winter)		< 36.8	**227**	**1.5**	< 4.7	**1.5**	-	-	< 2.1	< 261	< 61.4	< 183	< 18.1	< 57.9	< 199	< 1,190	< 168	-	-	-	**50.9**	< 645	< 23.4
		2003 02 (Summer)		< 37.2	**190**	**5.0**	**11.5**	**16.5**	-	-	< 2.2	**559**	< 39.4	< 107	< 36.1	< 42.6	< 174	< 1,480	< 180	-	-	-	**55.8**	< 779	< 42.8
		2002 04 (Winter)		< 46.0 UJ	**194**	**3.1**	-	**3.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		**7.3**	**182**	**0.75**	-	**0.75**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M025-C	2006 01 (Spring)		< 3.0 UJ	**44.2 J**	**0.45 J**	**2.1 J**	**2.5**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	**0.065 J**	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0	**58.2**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 14.0	**22.3**	**0.52**	< 5.0	**0.52**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 13.1	**26.4**	< 0.52	< 5.0	-	< 5.0	< 5.0	< 5.0	< 101	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)		< 10.3 UJ	**59.4**	< 0.83	< 3.6	-	-	-	< 2.2	< 91.0	< 38.8	< 176	**20.0**	< 44.7	< 174	< 1,420	< 116	-	-	-	< 8.0	< 668	< 34.7
		2003 02 (Summer)		< 10.8	**53.2**	< 2.0	< 4.8	-	-	-	< 2.3	< 165	< 62.7	< 114	< 20.7	< 48.7	< 184	< 1,560	< 51.8	-	-	-	< 26.9	< 645	< 35.7
		2002 04 (Winter)		< 6.1 UJ	**56.4**	**1.8**	-	**1.8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		< 0.99	< 67.0	< 0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M027-B	2006 01 (Spring)		< 3.0 UJ	**32.4 J**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	**60.5 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.22**	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0 UJ	**62.3 J**	**1.2**	**3.3 J**	**4.5**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 15.7	**40.2 J**	**0.78**	< 5.0	**0.78**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 18.3	**25.8**	**1.0**	< 5.0	**1.0**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.58	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)		< 21.0	< 33.6	**1.5**	< 4.2	**1.5**	-	-	< 2.2	< 328	< 57.2	< 189	< 25.5	< 32.6	< 171	< 1,010	< 163	-	-	-	**59.7**	< 840	< 35.3
		2003 02 (Summer)		< 28.4	**80.5**	**2.1**	< 3.6	**2.1**	-	-	< 2.1	**376**	< 16.0	< 223	< 26.0	< 39.8	< 178	< 1,890	< 180	-	-	-	< 35.8	< 516	< 32.8
		2002 04 (Winter)		< 25.8 UJ	< 35.9	< 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		< 3.9	**173**	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M027-C	2006 01 (Spring)		< 3.0 UJ	< 3.0	**0.63**	< 5.0	**0.63**	< 5.0	< 5.0	< 5.0	**72.7 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**1.7**	-	**1.2**	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0 UJ	**109 J**	**1.0**	**1.7 J**	**2.7**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 30.5	**80.7 J**	**1.1**	< 5.0	**1.1**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 29.8	< 57.1	**1.3**	< 5.2	**1.3**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**1.8**	-	**1.1**	< 10.0	< 750	< 10.0
		2003 04 (Winter)		< 23.5 UJ	**87.8**	**1.1**	< 3.8	**1.1**	-	-	< 1.8	**442**	< 78.5	< 156	< 27.4	< 30.8	< 178	< 1,510	< 246	-	-	-	< 29.0	< 735	< 19.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-8

Groundwater Sample Analytical Results at IR Sites 1 and 32: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M027-C	2003 02 (Summer)	< 35.3	**97.8**	**6.9**	< 5.8	**6.9**	-	-	< 2.3	< 271	< 32.4	< 148	< 29.2	< 63.1	< 176	< 1,800	< 2.2	-	-	-	< 44.0	< 820	< 32.1
		2002 04 (Winter)	< 30.4 UJ	**101**	**2.5**	-	**2.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 3.9	**117**	< 0.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M028-C	2006 01 (Spring)	< 3.0	**106**	**0.57**	**2.3 J**	**2.9**	< 5.0	< 5.0	**2.6 J**	**86.9 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.28**	-	**0.18 J**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**90.1**	**0.45 J**	**2.9 J**	**3.4**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	**3.7**	**1.1**	< 5.0	**1.1**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 49.7	**56.5 J**	**1.1**	< 5.0 UJ	**1.1**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 66.6	< 69.0	**1.1**	< 5.0	**1.1**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 38.8	**148**	**3.9**	**2.6**	**6.5**	-	-	< 1.7	< 139	< 37.8	< 48.6	< 20.7	< 16.3	< 183	< 786	< 116	-	-	-	**22.9**	< 209	**34.8**
		2003 04 (Winter)	< 44.3	**116**	**1.6**	< 4.3	**1.6**	-	-	< 1.7	< 55.4	< 36.6	< 92.2	< 26.6	< 227	< 170	< 1,370	< 172	-	-	-	< 36.0	< 790	**31.6**
		2003 03 (Fall)	< 43.1	**108**	**1.4**	**11.8**	**13.2**	-	-	< 1.7	< 187	< 80.2	< 110	< 32.0	< 41.8	< 179	< 1,930	< 290	-	-	-	**41.9**	< 367	< 38.3
		2003 02 (Summer)	< 56.7	**106**	< 2.0	**7.4**	**7.4**	-	-	< 1.8	**446**	< 51.2	< 90.6	< 40.1	< 48.7	< 179	< 2,010	< 101	-	-	-	< 29.8	< 733	< 28.3
		2003 01 (Spring)	< 51.7 UJ	**137**	**3.2**	**9.7**	**12.9**	-	-	< 1.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 181	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 31.5 UJ	**119**	**1.9**	-	**1.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**5.7**	**92.9**	**0.91 J**	-	**0.91**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.1	**265**	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M030-C	2006 01 (Spring)	< 3.0	**144**	**0.59**	**1.8 J**	**2.4**	< 5.0	< 5.0	< 5.0	**160**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.88**	-	**0.67**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	**0.39 J**	< 5.0	**0.39**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 63.7	**32.3 J**	**0.39 J**	< 5.0 UJ	**0.39**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 27.8	< 58.1	< 0.65	< 5.0	-	< 5.0	< 5.0	< 5.0	**167**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.67	-	< 0.72	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 74.7 UJ	**140**	< 0.90	< 3.3	-	-	-	< 1.9	< 692	< 68.7	< 164	< 22.3	< 55.8	< 266	< 1,350	< 264	-	-	-	< 7.0	< 643	< 25.1
		2003 02 (Summer)	< 61.6	**187**	< 1.4	**4.3**	**4.3**	-	-	< 2.5	**774**	< 35.8	< 211	< 28.4	< 50.5	< 176	< 1,600	< 132	-	-	-	< 43.5	< 612	< 32.6
		2002 04 (Winter)	< 66.8 UJ	**142**	**1.6**	-	**1.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**8.1**	**261**	**0.75**	-	**0.75**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M031-C	2006 01 (Spring)	< 3.0	**7.6**	**1.3**	**2.5 J**	**3.8**	< 5.0	< 5.0	**4.8 J**	**63.8 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.094 J**	-	< 0.20	**11.7**	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**90.1**	**1.4**	**2.1 J**	**3.5**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 37.6	**82.7 J**	**1.3**	< 5.0	**1.3**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 40.4 UJ	**46.6**	**1.6**	< 5.0	**1.6**	< 5.0	< 5.0	< 5.0	< 103	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 58.7 UJ	**87.7**	**1.2**	< 4.2	**1.2**	-	-	< 1.9	< 65.6	< 49.3	< 121	**25.6**	< 3.0	< 174	< 824	< 249	-	-	-	< 0.64	< 672	< 1.7
		2003 02 (Summer)	< 40.5	**88.7**	**3.5**	< 3.3	**3.5**	-	-	< 1.9	< 369	< 65.4	< 15.1	< 34.3	< 43.8	< 177	< 2,170	< 16.7	-	-	-	< 66.2	< 520	< 24.3
		2002 04 (Winter)	< 38.6 UJ	**108**	**1.6**	-	**1.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**4.2**	**250**	**0.62**	-	**0.62**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M001-A	04/19/06	7.51	3.37	9.0
		08/25/05	7.35	0.85	-176
		03/16/05	7.35	0.09	-54
		11/22/04	7.75	0.45	-81
		06/16/04	7.56	0.17	-212
		04/05/04	7.51	0.18	65
		12/18/03	7.79	0.17	-137
		09/24/03	7.94	0.27	-68
		07/07/03	7.76	0.23	141
		04/15/03	7.69	0.18	98
		12/26/02	7.88	0.30	-24
		09/18/02	7.95	0.90	-99.2
		06/27/02	7.74	2.30	-63
First	M001-E	04/18/06	***8.80***	0.14	-268
		08/24/05	***9.59***	0.76	-303
		03/16/05	***8.72***	0.00	-288
		11/22/04	***8.71***	0.16	-40
		06/16/04	8.43	1.63	203
		03/09/04	8.41	0.14	89
		12/18/03	***8.54***	0.19	-206
		09/24/03	***8.74***	0.21	35
		07/08/03	***8.65***	0.13	110
		04/15/03	***8.79***	0.19	150
		12/26/02	***9.03***	0.00	-240
		09/18/02	***8.60***	0.50	-132.2
		06/27/02	6.65	4.20	-234
First	M002-A	04/20/06	7.47	4.04	52
		08/25/05	6.63	0.53	3.0
		03/16/05	7.08	1.91	32
		11/22/04	6.79	1.72	215
		06/16/04	6.59	8.30	4.0
		04/06/04	6.79	1.18	154
		12/18/03	7.36	3.91	89.5
		09/24/03	6.88	1.14	97
		07/03/03	6.80	0.34	-298
		04/15/03	6.89	2.37	221
		12/26/02	7.46	6.40	-11
		09/19/02	6.67	7.70	24.5
		06/26/02	6.91	2.40	120
First	M003-A	04/18/06	7.15	1.95	56
		08/24/05	6.69	5.02	61
		03/16/05	6.32	0.06	-17
		11/22/04	6.98	0.17	142
		06/17/04	6.67	0.52	-152
		04/05/04	7.02	0.34	80

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
		12/19/03	7.26	0.26	34
		09/24/03	7.06	0.27	7.0
First	M003-A	07/07/03	7.15	0.14	22
		04/21/03	6.83	0.34	9.0
		12/26/02	6.85	1.12	2.0
		09/19/02	6.63	0.51	-40
		06/26/02	6.96	1.10	1.0
First	M004-A	04/18/06	6.89	3.30	140
		08/25/05	6.97	0.83	-41
		11/23/04	6.92	0.77	188
		06/17/04	6.82	1.96	-41
		12/18/03	7.06	0.48	74
		07/07/03	7.24	0.11	44
		12/26/02	7.25	4.57	130
		06/26/02	7.22	2.20	115
First	M005-A	04/17/06	7.54	0.76	-104
		08/24/05	6.75	0.41	-156
		03/16/05	6.45	0.00	-171
		11/23/04	7.22	0.66	-23
		06/17/04	7.11	0.32	-67
First	M006-A	04/18/06	6.96	0.82	4.0
		08/25/05	6.70	0.48	-47
		11/23/04	6.75	0.72	108
		06/17/04	6.42	0.32	-48
		12/18/03	6.82	0.26	-159
		07/07/03	6.63	0.21	85
		12/26/02	6.72	0.02	-12
		06/26/02	6.72	0.01	-54.8
First	M007-A	08/29/05	7.48	0.00	-200
		11/23/04	7.09	0.55	128
		06/18/04	7.26	0.28	-74
		12/18/03	7.21	0.27	14
		07/07/03	7.58	0.23	141
		12/26/02	7.64	0.01	-104
		06/26/02	7.27	0.16	-75
First	M025-A	04/20/06	7.93	0.94	-217
		08/26/05	7.50	3.99	-293
		03/16/05	7.33	0.00	-353
		11/24/04	7.82	0.18	-129
		06/21/04	7.41	0.24	-275
		04/05/04	7.84	0.12	268
		12/19/03	7.66	0.29	109
		09/30/03	7.76	0.22	-242
		07/07/03	7.80	0.16	-272
		04/15/03	8.37	0.16	-183

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
		12/27/02	7.50	4.57	-90
		09/18/02	7.09	0.28	-248
		07/01/02	7.80	0.15	-183.2
First	M026-A	04/18/06	7.53	0.40	-51
First	M026-A	08/26/05	8.33	2.73	51
		11/23/04	7.58	4.41	45
		06/24/04	7.02	2.41	-111
		12/19/03	7.16	4.93	185
		07/07/03	7.46	1.56	-177
		12/27/02	7.93	4.29	7.0
		07/01/02	7.50	2.50	120
First	M026-E	08/26/05	8.08	0.89	-204
		11/23/04	7.20	0.13	48
		06/24/04	7.33	0.32	-204
		12/18/03	6.87	0.18	-173
		07/07/03	7.30	0.18	-144
		12/27/02	7.67	3.91	-127
		07/01/02	7.85	2.10	-115
First	M027-A	04/19/06	7.12	1.06	34
		08/26/05	6.55	0.35	-29
		03/16/05	7.20	0.00	-14
		11/23/04	7.25	0.16	38
		06/17/04	6.79	6.10	-31
		04/05/04	7.05	0.17	112
		12/19/03	7.24	0.59	-54.9
		09/24/03	6.95	0.54	-91
		07/07/03	7.21	0.37	164
		04/15/03	7.10	2.20	-47
		12/27/02	6.99	0.02	1.0
		09/18/02	6.97	1.90	-76.7
		06/28/02	7.18	0.80	43
First	M027-E	08/26/05	6.70	0.65	-156
		03/16/05	7.85	0.00	-175
		11/23/04	7.22	0.16	-28
		06/17/04	7.02	***23.80***	-84
		03/10/04	7.99	0.05	-45
		12/19/03	7.29	0.69	-122.1
		09/24/03	7.15	0.29	-165
First	M028-A	04/18/06	6.80	0.06	-61
		09/07/05	7.00	3.17	-107
		03/16/05	7.21	0.62	-130
		11/22/04	6.81	1.55	-13
		06/16/04	6.63	***9.70***	-100
		04/05/04	6.92	0.68	14
		12/19/03	7.16	0.56	-62

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
		09/24/03	6.98	0.16	-160
		07/08/03	7.36	0.15	24
		04/15/03	7.10	2.60	-84
		12/27/02	7.34	0.06	-91
		09/18/02	6.94	0.45	-168
		07/01/02	7.32	2.20	-120
First	M028-E	04/19/06	7.04	0	-155
		08/25/05	6.55	0.00	-159
		03/16/05	6.99	0.00	-199
		11/22/04	6.33	0.36	-40
		06/17/04	6.29	1.70	-143
		04/05/04	6.52	0.13	-179
		12/19/03	6.86	0.74	-162.3
		09/24/03	6.63	0.10	-144
		07/08/03	6.57	0.09	9.0
		04/16/03	6.47	0.19	-25
		12/31/02	7.03	3.96	-124
First	M029-A	04/18/06	7.59	0.03	-221
		08/25/05	***9.01***	0.78	-250
		03/16/05	8.15	0.00	-259
		11/22/04	8.17	0.13	-199
		06/16/04	8.00	0.21	-105
		03/10/04	8.25	0.38	77
		12/19/03	7.91	0.10	-183.3
		09/29/03	8.00	0.29	11
		07/08/03	7.96	0.25	-185
		04/15/03	8.00	2.20	-144
		12/27/02	7.80	0.00	-167
		09/18/02	8.11	0.80	-196.7
		06/27/02	7.95	2.30	-139
First	M029-E	08/26/05	7.26	0.81	-230
		11/22/04	8.10	0.15	-200
		06/16/04	7.93	0.27	-90
		12/22/03	8.04	0.49	-17
		07/10/03	7.91	0.85	-173
		12/27/02	7.34	***12.26***	-206.6
		06/27/02	8.02	2.20	-152
First	M030-A	04/18/06	6.32	0.43	185
		08/25/05	7.26	0.27	-155
		03/16/05	6.17	0.00	73
		11/22/04	7.61	0.29	108
		06/17/04	7.19	0.67	-257
		04/05/04	6.95	1.95	175
		12/18/03	6.60	0.89	149
		09/29/03	7.34	0.39	155

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
		07/07/03	6.98	0.68	167
		04/15/03	6.50	8.90	213
		12/26/02	6.97	6.48	99
		09/19/02	7.45	0.30	-38
		06/27/02	6.55	2.60	-237
First	M031-A	04/19/06	7.45	0.20	-159
		08/26/05	6.63	0.44	-161
		03/17/05	6.68	0.00	-115
First	M031-A	11/23/04	7.21	0.18	239
		06/17/04	6.94	0.18	-267
		03/10/04	7.31	0.18	84
		12/22/03	6.97	0.94	349
		09/29/03	7.43	0.19	51
		07/08/03	7.26	0.19	-80
		04/17/03	7.18	0.21	201
		12/27/02	6.16	0.77	14.1
		09/17/02	7.49	1.30	2.2
		06/28/02	7.22	2.30	-31
First	M031-E	08/25/05	8.34	0.75	-241
		03/17/05	6.44	0.00	-119
		11/23/04	7.62	0.11	111
		06/17/04	7.24	0.10	-279
		03/10/04	7.59	0.09	-28
		12/19/03	7.61	0.18	-103
		09/29/03	7.40	0.19	33
First	M032-A	04/19/06	7.41	0.09	732
		08/26/05	7.14	2.94	-144
		11/23/04	7.02	0.50	12
		06/17/04	6.86	0.26	-53
		12/19/03	7.06	0.32	172
		07/08/03	7.22	0.11	45
		12/30/02	6.79	8.82	-108.1
		06/26/02	7.11	0.09	-116.5
First	M033-A	04/19/06	7.86	0.91	-226
		08/26/05	8.24	0.78	-196
		03/17/05	6.66	0.00	-214
		11/22/04	7.16	0.45	33
		06/16/04	7.38	0.21	-0.65
		03/10/04	7.69	0.43	81
		12/19/03	7.40	0.35	174
		09/25/03	7.47	0.31	-103
		07/10/03	7.72	0.15	-99
		04/16/03	7.33	0.13	121
		12/27/02	7.63	0.00	-208
		09/17/02	7.48	0.90	-159.3

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
		06/28/02	7.17	2.00	-85
First	M034-A	04/18/06	7.09	0.38	-145
		08/26/05	7.63	0.77	-182
		03/17/05	6.22	1.26	-189
		11/22/04	6.64	0.55	-24
		06/16/04	6.75	0.24	-0.58
		03/10/04	6.93	0.10	89
		12/22/03	7.03	1.21	-134.4
		09/25/03	6.84	0.40	-72
		07/08/03	7.00	0.15	-135
First	M034-A	04/16/03	6.74	0.24	42
		12/30/02	6.38	***36.92***	-138.5
		09/17/02	6.80	0.80	-125.7
		06/28/02	6.71	1.70	95
First	M035-A	04/19/06	7.12	1.10	10
		08/26/05	7.63	0.77	-182
		03/17/05	7.31	0.21	-72
		11/23/04	7.12	0.17	98
		06/21/04	6.63	3.40	110
		03/10/04	7.20	0.50	106
		12/19/03	7.13	0.43	198
		09/24/03	7.14	0.43	4.0
		07/08/03	7.37	0.21	-99
		04/21/03	7.04	0.45	158
		12/30/02	6.52	***17.71***	23.1
		09/17/02	7.09	1.20	-47.4
		06/28/02	7.14	0.90	-127
Second	M001-B	04/18/06	6.87	0.11	-51
		08/25/05	7.65	0.80	-96
		11/22/04	7.08	0.18	81
		06/16/04	6.81	1.70	104
		12/18/03	6.80	0.16	-174
		07/07/03	7.05	0.14	210
		12/26/02	7.34	0.00	-95
		07/02/02	6.90	0.18	-46.1
Second	M003-B	04/20/06	6.82	0.95	-128
		08/25/05	6.87	1.01	-121
		11/22/04	6.74	0.15	147
		06/16/04	6.76	0.30	-221
		12/18/03	6.69	0.25	-26
		07/07/03	6.99	0.12	52
		12/26/02	6.87	0.17	-81
		07/01/02	6.78	0.03	-82.3
Second	M025-C	04/18/06	6.83	0.29	-183
		08/26/05	7.10	3.11	-196

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
		03/17/05	6.41	0.96	-215
		11/24/04	7.19	0.20	-57
		06/21/04	6.94	0.19	-253
		03/09/04	7.73	0.08	-114
		12/19/03	6.86	0.17	-19
		09/30/03	7.23	0.32	-168
		07/07/03	7.24	0.09	-172
		04/15/03	6.96	0.20	-3.0
		12/26/02	7.38	0.00	-173
		09/19/02	6.86	NM	-162
		07/01/02	6.90	1.68	-150.9
Second	M027-B	04/18/06	7.18	0.55	-167
Second	M027-B	08/29/05	7.02	0.00	-216
		11/23/04	7.10	0.20	-90
		06/17/04	6.89	3.70	-163
		12/18/03	6.92	0.38	36
		07/08/03	7.13	0.16	13
		12/27/02	7.19	0.00	-190
		07/02/02	6.97	0.18	-127
Second	M027-C	04/18/06	7.19	0.48	-159
		08/29/05	7.01	0.00	-251
		11/23/04	7.12	0.24	-31
		06/17/04	6.88	3.50	-192
		12/19/03	7.14	1.09	-217
		07/07/03	6.94	0.16	-67
		12/27/02	7.16	4.36	-182
		07/02/02	6.97	0.12	-81.4
Second	M028-C	04/19/06	7.38	0	-182
		08/25/05	7.05	0.61	-204
		03/17/05	7.43	0.05	-236
		11/22/04	7.19	0.35	-113
		06/16/04	6.99	0.12	-290
		03/09/04	7.83	0.11	-144
		12/18/03	7.57	0.30	-181.2
		09/24/03	7.12	0.09	-140
		07/08/03	7.07	0.15	24
		04/16/03	7.24	0.11	-130
		12/27/02	7.48	0.10	-269
		09/18/02	7.07	0.22	-153
		07/02/02	7.06	0.42	-126.3
Second	M030-C	04/19/06	7.74	0.62	-231
		08/26/05	***8.51***	0.74	-227
		11/22/04	7.82	0.13	13
		06/17/04	7.49	0.13	-255
		12/19/03	7.70	0.18	-84

Table 3-9
Groundwater Sampling Field Parameters at IR Sites 1 and 32
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
		07/08/03	7.86	0.14	-133
		12/26/02	8.22	3.59	-233
		07/15/02	7.66	2.50	-24
Second	M031-C	04/19/06	7.36	1.29	-252
		08/25/05	7.90	0.71	-247
		11/23/04	7.38	0.12	-19
		06/21/04	6.90	0.28	-253
		12/19/03	7.13	0.16	-146
		07/08/03	7.05	0.14	-67
		12/27/02	7.39	0.00	-242
		07/02/02	7.06	0.32	-87.6

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 3-10
Groundwater Sample Analytical Results at IR Sites 1 and 32: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M002-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M003-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M004-A	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**1.0**	< 0.050	**16.0**	**20.0**	**270**	**270**	< 1.0	< 1.0	< 0.040	**1,820**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.99**	< 0.050	< 0.050	**87.0**	**26.0**	**410**	**410**	< 1.0	< 1.0	< 0.040	**530**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.12**	**0.090**	< 0.050	**93.0**	**33.0**	**480**	**480**	< 1.0	< 1.0	< 0.040	**640**
		2004 02 (Summer)	< 0.010	< 0.010	**0.18**	**0.020 J**	< 0.050	**100**	**34.0**	**460**	**460**	< 1.0	< 1.0	< 0.040	**610**
		2003 04 (Winter)	**0.0010 J**	< 0.0030	**0.63**	< 0.10	< 0.10	**121**	**27.8**	**498**	**498**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	**0.0006 J**	< 0.0030	**0.29**	< 0.10	< 0.10	**104**	**35.9**	**411**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**2.4**	< 0.050	**53.0**	**63.0**	**450**	**450**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.20**	< 0.050	< 0.050	**130**	**26.0**	**450**	**450**	< 1.0	< 1.0	< 0.040	-
	M006-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M007-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M027-A	2006 01 (Spring)	< 0.0050	< 0.0050	**0.030**	**0.42**	< 0.050	**72.0**	**150**	**400**	**400**	< 1.0	< 1.0	< 0.040	**880**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.056**	< 0.050	< 0.10	**600**	**150**	**520**	**520**	< 1.0	< 1.0	< 0.040	**1,280**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.079**	< 0.050	< 0.10	**770**	**170**	**540**	**540**	< 1.0	< 1.0	< 0.040	**2,020**
		2004 02 (Summer)	< 0.010	< 0.010	**0.035**	**0.030 J**	< 0.10	**600**	**180**	**550**	**550**	< 1.0	< 1.0	< 0.040	**1,690**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.055**	**0.22**	< 1.0	**783**	**195 J**	**553**	**553**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.024**	< 0.10	< 1.0	**706**	**214**	**498**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.018**	**3.2**	**0.030 J**	**110**	**260**	**510**	**510**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.025**	< 0.10	< 0.10	**420**	**190**	**570**	**570**	< 1.0	< 1.0	-	-
	M028-A	2005 02 (Summer)	**1.8**	< 0.0050	**4.4**	< 0.050	< 0.050	**110**	**0.33 J**	**350**	**350**	< 1.0	< 1.0	**0.070**	**470**
		2004 04 (Winter)	**2.5**	**4.0**	**5.1**	< 0.050	< 0.050	**160**	**15.0**	**370**	**370**	< 1.0	< 1.0	**0.12 J**	**660**
		2004 02 (Summer)	**0.88**	**0.11**	**3.0**	**0.020 J**	< 0.050	**110**	**31.0**	**320**	**320**	< 1.0	< 1.0	< 0.040	**550**
		2003 04 (Winter)	**0.50**	**0.17**	**1.1**	< 0.10	< 0.10	**118**	**24.4**	**377**	**377**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	**0.97**	**0.054**	**3.6**	**0.23**	< 0.10	**76.1**	**0.72**	**281**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**2.0**	< 0.050	**67.0**	**160**	**380**	**380**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	**0.83**	**0.13**	**3.2**	< 0.050	< 0.050	**74.0**	**10.0**	**350**	**350**	< 1.0	< 1.0	**0.090**	-
	M028-E	2006 01 (Spring)	**2.3**	**2.2**	**7.0**	< 0.050	< 0.050	**120**	**20.0**	**280**	**280**	< 1.0	< 1.0	**0.060**	**870**
		2005 02 (Summer)	**2.5**	**6.9**	**9.9**	< 0.050	< 0.10	**540**	< 0.50	**360**	**360**	< 1.0	< 1.0	< 0.040	**1,200**
		2004 04 (Winter)	**1.9**	**22.0**	**17.0**	< 0.050	< 0.050	**420**	**0.097 J**	**380**	**380**	< 1.0	< 1.0	**0.070 J**	**1,330**
		2004 02 (Summer)	**2.6**	**13.0**	**14.0**	**0.090**	< 0.10	**570**	< 0.50	**380**	**380**	< 1.0	< 1.0	< 0.040	**1,380**
		2003 04 (Winter)	**0.71**	**1.7**	**4.8**	< 0.10	< 0.10	**421**	**0.75**	**424**	**424**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	**1.0**	**3.6**	**7.1**	< 0.10	< 1.0	**370**	**0.34 J**	**318**	-	-	-	< 1.0	-
		2002 04 (Winter)	**1.9**	**9.2**	**14.0**	< 0.050	< 0.050	**190**	< 0.50	**360**	**360**	< 1.0	< 1.0	**0.11**	-
	M032-A	2002 02 (Summer)	-	-	-	-	-	-	-	-	-	-	-	< 0.040	-
	M033-A	2006 01 (Spring)	**0.0030 J**	< 0.0050	**1.5**	**0.020 J**	< 0.050	**16.0**	**13.0**	**220**	**220**	< 1.0	< 1.0	< 0.040	**400**
		2005 02 (Summer)	**0.011**	< 0.0050	**4.8**	< 0.050	< 0.050	**37.0**	**1.9**	**400**	**400**	< 1.0	< 1.0	< 0.040	**350**
		2004 04 (Winter)	**0.0080**	< 0.0050	**2.2**	< 0.050	< 0.050	**43.0**	**4.8**	**390**	**390**	< 1.0	< 1.0	**0.15 J**	**520**

ITSI Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-10
Groundwater Sample Analytical Results at IR Sites 1 and 32: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
				Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
			Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
			BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M033-A	2004 02 (Summer)		**0.024**	< 0.010	**6.8**	< 0.050	< 0.050	**52.0**	**1.1**	**380**	**380**	< 1.0	< 1.0	< 0.040	**500**
		2003 04 (Winter)		**0.0044**	< 0.0030	**1.0**	**0.089 J**	< 0.10	**65.6**	**5.0**	**434**	**434**	< 5.0	-	< 1.0	-
		2003 02 (Summer)		**0.010**	< 0.0030	**1.4**	< 0.10	< 0.10	**41.8**	**3.8**	**358**	-	-	-	< 1.0	-
		2002 04 (Winter)		< 0.010	< 0.010	**2.1**	< 0.050	< 0.050	**57.0**	**15.0**	**440**	**440**	< 1.0	< 1.0	**0.060**	-
		2002 02 (Summer)		< 0.010	< 0.010	**2.5**	< 0.050	< 0.050	**58.0**	**2.5**	**340**	**340**	< 1.0	< 1.0	< 0.040	-
SWBZ	M003-B	2006 01 (Spring)		< 0.0050	< 0.0050	**0.074**	< 1.3	< 2.5	**13,000 J**	**900**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	**22,900**
		2005 02 (Summer)		< 0.0050	< 0.0050	**0.081**	< 1.0	< 2.5	**14,000**	**630**	**1,100**	**1,100**	< 1.0	< 1.0	< 0.040	**23,100**
		2004 04 (Winter)		< 0.0050	< 0.0050	**0.093**	< 1.3	< 1.3	**13,000**	**660**	**940**	**940**	< 1.0	< 1.0	< 0.040	**24,400**
		2003 04 (Winter)		< 0.0030	< 0.0030	**0.054**	< 1.0	< 10.0	**11,300**	**613**	**1,010**	**1,010**	< 5.0	-	< 1.0	-
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.057**	< 1.0	< 10.0	**3,080**	**606**	**972**	-	-	-	< 1.0	-
		2002 04 (Winter)		< 0.010	< 0.010	**0.077**	< 1.3	< 1.3	**14,000**	**630**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)		< 0.010	< 0.010	**0.062**	< 0.50	< 0.50	**13,000**	**600**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	-
	M028-C	2006 01 (Spring)		< 0.0050	< 0.0050	**0.0060**	< 1.0	< 1.0	**11,000**	**1,300**	**400**	**400**	< 1.0	< 1.0	< 0.040	**21,500**
		2005 02 (Summer)		< 0.0050	< 0.0050	**0.0040 J**	< 1.0	< 1.3	**12,000**	**1,400**	**480**	**480**	< 1.0	< 1.0	< 0.040	**19,800**
		2004 04 (Winter)		< 0.0050	< 0.0050	**0.0050**	< 1.0	< 1.3	**12,000**	**1,300**	**400**	**400**	< 1.0	< 1.0	< 0.040	**22,500**
		2004 02 (Summer)		< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	**12,000**	**1,300**	**430**	**430**	< 1.0	< 1.0	< 0.040	**19,900**
		2003 04 (Winter)		< 0.0030	< 0.0030	**0.0027 J**	< 1.0	< 10.0	**9,610**	**1,350**	**474**	**474**	< 5.0	-	< 1.0	-
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.0028 J**	< 1.0	< 10.0	**12,700**	**1,430**	**416**	-	-	-	< 1.0	-
		2002 04 (Winter)		< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	**11,000**	**1,400**	**440**	**440**	< 1.0	< 1.0	**0.18**	-
		2002 02 (Summer)		< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**12,000**	**1,300**	**450**	**450**	< 1.0	< 1.0	< 0.040	-

Table 3-11

Soil Gas Analytical Results at IR Sites 1 and 32: Volatile Organic Compounds and Fixed Gases, Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG1-01-D	2005 02 (Summer)	**4.3**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**81.0**	**15.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	**17.0**	**22.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
	MG1-01-S	2006 01 (Spring)	**0.69**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**21.0**	< 0.67	< 0.67	< 0.67	**3.0**	< 6.7	< 0.67	< 0.67	**4.5**	**4.2**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**0.87**	< 0.013	< 0.0013	< 0.0013	**0.0001**	**78.0**	**21.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	**4.6**	**4.7**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	**0.33**	< 0.013	< 0.0013	< 0.0013	**0.0002**	**79.0**	**20.0**	< 0.67	< 0.67	< 0.67	**0.70**	< 6.7	< 0.67	< 0.67	**2.1**	**2.4**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
	MG1-02-S	2006 01 (Spring)	**0.093**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**22.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7 UJ	< 0.67	< 0.67	< 0.67	**1.6**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**0.083**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**22.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	**1.5**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	**0.071**	< 0.013	< 0.0013	< 0.0013	**0.0001**	**79.0**	**21.0**	**2.8**	**2.4**	< 0.67	**1.3**	**17.0**	< 0.67	< 0.67	< 0.67	**1.6**	< 0.67	**0.90**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
	MG1-03-D	2005 02 (Summer)	**3.8**	< 0.013	< 0.0013	< 0.0013	**0.0004**	**80.0**	**16.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	**4.0**	**11.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
	MG1-03-S	2006 01 (Spring)	**0.44**	< 0.013	< 0.0013	< 0.0013	**0.0002**	**78.0**	**21.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7 UJ	< 0.67	< 0.67	< 0.67	**6.7**	< 0.67	**1.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**0.11**	< 0.013	< 0.0013	< 0.0013	**0.0002**	**78.0**	**22.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	**2.4**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	**0.15**	< 0.014	< 0.0014	< 0.0014	**0.0040**	**78.0**	**22.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	**1.2**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
	MG1-04-D	2006 01 (Spring)	**4.4**	< 0.015	**0.064**	< 0.0015	**49.0**	**44.0**	**2.3**	< 22.0	< 22.0	< 22.0	< 22.0	< 220	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	**300**
		2005 02 (Summer)	**1.9**	< 0.013	< 0.0013	< 0.0013	**0.0010**	**79.0**	**19.0**	< 0.67	**0.81**	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	**3.2**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
	MG1-04-S	2006 01 (Spring)	**1.5**	< 0.013	< 0.0013	< 0.0013	**0.072**	**78.0**	**20.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	**0.87**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**0.13**	< 0.013	< 0.0013	< 0.0013	**0.0002**	**78.0**	**22.0**	**1.5**	**1.9**	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**0.92**	< 0.67	< 0.67
		2005 01 (Spring)	**1.0**	< 0.013	< 0.0013	< 0.0013	**0.0001**	**81.0**	**18.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
	MG1-05-D	2006 01 (Spring)	**3.2**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**19.0**	< 0.67	**1.0**	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	**1.2**	**4.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**1.3**	< 0.014	< 0.0014	< 0.0014	< 0.0001	**78.0**	**21.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	**2.1**	**9.7**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
	MG1-05-S	2006 01 (Spring)	**1.7**	< 0.013	< 0.0013	< 0.0013	**0.0001**	**77.0**	**21.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	**1.1**	**7.6**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**0.61**	< 0.013	< 0.0013	< 0.0013	**0.0001**	**78.0**	**21.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	**0.87**	**5.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	**3.3**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**80.0**	**16.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 7.2	< 0.67	< 0.67	**0.74**	**3.6**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-11
Soil Gas Analytical Results at IR Sites 1 and 32: Volatile Organic Compounds and Fixed Gases, Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																					
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG1-01-D	2005 02 (Summer)	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**3.5**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
	MG1-01-S	2006 01 (Spring)	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**1.0**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**5.6**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**1.2**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**0.97**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-02-S	2006 01 (Spring)	**8.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2005 02 (Summer)	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	**4.7**	< 0.67	< 0.67	< 0.67	< 0.67	**0.87**	**0.72**	< 2.7	< 0.67	< 0.67	< 0.67	**0.90**	< 1.0	< 0.67	< 0.67	< 0.67	**2.2**	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-03-D	2005 02 (Summer)	**3.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**3.3**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
	MG1-03-S	2006 01 (Spring)	**16.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	**0.85**	< 2.7	< 0.67	< 0.67 UJ	< 0.67
		2005 02 (Summer)	**3.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	**3.6**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
	MG1-04-D	2006 01 (Spring)	< 87.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 87.0	< 22.0	< 22.0	< 22.0	< 22.0	**43.4**	< 22.0	< 22.0	< 22.0	< 22.0	< 87.0	< 22.0	< 22.0	< 22.0
		2005 02 (Summer)	**2.6 J**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**5.8**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	**1.3**	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
	MG1-04-S	2006 01 (Spring)	**4.8**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	**1.0**	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**6.2**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	**1.4**	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
	MG1-05-D	2006 01 (Spring)	**2.7**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	**1.0**	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**4.7**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
	MG1-05-S	2006 01 (Spring)	**3.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**20.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	**0.82**	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	5	24	6.4 J	M001-E	24 Aug 2005	57.0 J	M028-E	2003 01 (Spring)
Benzene (UG/L)	8	24	37.0	M028-E	25 Aug 2005	85.0 J	M028-E	2004 04 (Winter)
Tetrachloroethene (PCE) (UG/L)	1	24	0.40 J	M035-A	19 Apr 2006	1.1	M027-A	2003 04 (Winter)
Toluene (UG/L)	7	24	690	M028-E	25 Aug 2005	2800	M028-E	2003 01 (Spring)
Trichloroethene (UG/L)	7	24	22.0	M002-A	18 Apr 2006	39.0	M002-A	2002 04 (Winter)
1,1-Dichloroethene (UG/L)	2	24	0.20 J	M035-A	25 Aug 2005	34.0 J	M028-E	2003 01 (Spring)
Ethylbenzene (UG/L)	4	24	44.0	M028-E	25 Aug 2005	80.0	M028-E	2003 02 (Summer)
cis-1,2-Dichloroethene (UG/L)	20	24	330	M028-E	25 Aug 2005	14000	M028-E	2003 01 (Spring)
M,P-xylenes (UG/L)	4	24	130	M028-E	25 Aug 2005	300	M028-E	2003 02 (Summer)
O-xylene (UG/L)	4	24	57.0	M028-E	25 Aug 2005	140	M028-E	2003 02 (Summer)
trans-1,2-Dichloroethene (UG/L)	7	24	3.2	M035-A	25 Aug 2005	30.0 J	M028-E	2003 04 (Winter)
1,1-Dichloroethane (UG/L)	5	24	16.0	M028-E	25 Aug 2005	35.0 J	M028-E	2003 01 (Spring)
Naphthalene (UG/L)	4	24	240	M001-E	18 Apr 2006	360	M001-E	2003 02 (Summer)
1,2-Dichloroethane (UG/L)	6	24	0.80	M032-A	26 Aug 2005	3.1	M028-E	2003 04 (Winter)
Carbon Disulfide (UG/L)	5	24	0.70	M001-A	25 Aug 2005	4.9	M028-A	2002 03 (Fall)
Carbon Tetrachloride (UG/L)	1	24	0.60	M003-A	18 Apr 2006	0.30 J	M003-A	2002 04 (Winter)
Chlorobenzene (UG/L)	8	24	100	M028-E	25 Aug 2005	150	M028-E	2003 02 (Summer)
1,2-Dichlorobenzene (UG/L)	5	24	30.0	M028-E	25 Aug 2005	80.0 J	M028-E	2003 01 (Spring)
Chloroethane (UG/L)	1	24	1.2 J	M028-E	19 Apr 2006	3.3 J	M028-A	2005 01 (Spring)
Vinyl Chloride (UG/L)	10	24	5000	M028-E	25 Aug 2005	35000	M028-E	2003 01 (Spring)
1,3-Dichlorobenzene (UG/L)	3	24	1.4 J	M028-E	25 Aug 2005	1.5	M028-E	2003 02 (Summer)
Chloroform (UG/L)	1	24	0.50	M003-A	18 Apr 2006	0.50 J	M003-A	2002 04 (Winter)
1,4-Dichlorobenzene (UG/L)	4	24	11.0	M028-E	25 Aug 2005	16.0 J	M028-E	2004 02 (Summer)
2-Chlorotoluene (UG/L)	1	24	0.30 J	M034-A	18 Apr 2006	0.10 J	M034-A	2004 04 (Winter)
1,2-Dichloropropane (UG/L)	3	24	0.50	M001-A	25 Aug 2005	2.2	M034-A	2002 04 (Winter)
Isopropylbenzene (UG/L)	5	24	9.0	M028-E	25 Aug 2005	40.0	M028-E	2003 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Isopropyl Ether (UG/L)	3	24	0.30 J	M034-A	26 Aug 2005	1.2 J	M028-E	2003 03 (Fall)
n-Butylbenzene (UG/L)	3	24	2.6 J	M028-E	25 Aug 2005	9.0	M028-E	2005 01 (Spring)
n-Propylbenzene (UG/L)	4	24	11.0	M028-E	25 Aug 2005	39.0	M028-E	2003 01 (Spring)
p-Isopropyltoluene (UG/L)	3	24	4.8 J	M028-E	25 Aug 2005	8.7	M028-E	2003 03 (Fall)
sec-Butylbenzene (UG/L)	5	24	5.1	M028-E	19 Apr 2006	13.0	M028-E	2002 04 (Winter)
Tert-butyl alcohol (UG/L)	1	24	7.1 J	M005-A	24 Aug 2005	16.0 J	M028-E	2003 04 (Winter)
Tert-butylbenzene (UG/L)	6	24	0.50	M034-A	26 Aug 2005	0.90	M034-A	2003 01 (Spring)
1,2,4-Trimethylbenzene (UG/L)	3	24	130	M028-E	25 Aug 2005	210	M028-E	2003 02 (Summer)
1,3,5-Trimethylbenzene (UG/L)	3	24	22.0	M028-E	25 Aug 2005	40.0	M028-E	2003 03 (Fall)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
1,3-Dichlorobenzene (UG/L)	1	8	0.10 J	M025-C	18 Apr 2006	--	NA	NA
Methylene Chloride (UG/L)	1	8	0.20 J	M001-B	18 Apr 2006	--	NA	NA
Methyl isobutyl ketone (MIBK) (UG/L)	1	8	0.10 J	M027-C	29 Aug 2005	--	NA	NA
Tert-butyl alcohol (UG/L)	1	8	5.0 J	M030-C	26 Aug 2005	8.4 J	M030-C	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
Acenaphthene (UG/L)	5	21	6.8 J	M001-E	18 Apr 2006	6.6 J	M029-A	2002 03 (Fall)
Anthracene (UG/L)	1	21	0.50 J	M001-E	18 Apr 2006	1.5 J	M001-E	2002 02 (Summer)
Fluoranthene (UG/L)	1	21	0.62 J	M001-E	18 Apr 2006	2.5 J	M029-E	2004 02 (Summer)
Fluorene (UG/L)	3	21	2.8 J	M001-E	18 Apr 2006	2.5 J	M028-E	2004 02 (Summer)
Naphthalene (UG/L)	4	24	240	M001-E	18 Apr 2006	360	M001-E	2003 02 (Summer)
Phenanthrene (UG/L)	3	21	2.3 J	M001-E	18 Apr 2006	2.1 J	M001-E	2002 04 (Winter)
Pyrene (UG/L)	1	21	0.73 J	M032-A	26 Aug 2005	11.0	M028-E	2004 01 (Spring)
bis(2-Chloroethyl)ether (UG/L)	1	21	1.2 J	M001-E	18 Apr 2006	1.7 J	M001-A	2003 01 (Spring)
bis(2-Chloroisopropyl)ether (UG/L)	4	21	3.6 J	M034-A	26 Aug 2005	3.4 J	M001-E	2005 01 (Spring)
bis(2-Ethylhexyl)phthalate (UG/L)	9	21	21.0	M026-A	25 Aug 2005	350	M027-A	2003 03 (Fall)
Dibenzofuran (UG/L)	2	21	1.8 J	M001-E	18 Apr 2006	1.4 J	M001-E	2003 01 (Spring)
1,2-Dichlorobenzene (UG/L)	5	24	30.0	M028-E	25 Aug 2005	80.0 J	M028-E	2003 01 (Spring)
1,3-Dichlorobenzene (UG/L)	3	24	1.4 J	M028-E	25 Aug 2005	1.5	M028-E	2003 02 (Summer)
1,4-Dichlorobenzene (UG/L)	4	24	11.0	M028-E	25 Aug 2005	16.0 J	M028-E	2004 02 (Summer)
3,3'-Dichlorobenzidine (UG/L)	1	21	0.67 J	M001-E	18 Apr 2006	--	NA	NA
Diethylphthalate (UG/L)	1	21	3.2 J	M028-E	25 Aug 2005	12.0 J	M028-E	2003 01 (Spring)
2,4-Dimethylphenol (UG/L)	3	21	1000	M028-E	25 Aug 2005	3900	M028-E	2003 01 (Spring)
2-Methylnaphthalene (UG/L)	2	21	8.9 J	M001-E	18 Apr 2006	7.8 J	M034-A	2002 04 (Winter)
2-Methylphenol (o-Cresol) (UG/L)	1	21	140	M028-E	25 Aug 2005	850	M028-E	2003 01 (Spring)
4-Methylphenol (p-Cresol) (UG/L)	1	21	1.1 J	M028-E	19 Apr 2006	38.0 J	M028-E	2002 04 (Winter)
4-Nitrophenol (UG/L)	1	21	1.0 J	M028-E	19 Apr 2006	14.0 J	M028-E	2004 02 (Summer)
n-Nitrosodiphenylamine (UG/L)	2	21	1.3 J	M034-A	26 Aug 2005	1.9 J	M034-A	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (Second Water-Bearing Zone)								
Semivolatile Organic Compounds								
bis(2-Ethylhexyl)phthalate (UG/L)	2	8	2.7 J	M025-C	26 Aug 2005	5.9 J	M031-C	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	14	21	17.0	M001-A	19 Apr 2006	13.0 J	M027-A	2002 04 (Winter)
Arsenic (UG/L)	21	21	39.0	M028-E	25 Aug 2005	47.7 J	M028-E	2003 03 (Fall)
Barium (UG/L)	21	21	620	M025-A	26 Aug 2005	958	M025-A	2003 02 (Summer)
Beryllium (UG/L)	1	21	0.11 J	M001-A	25 Aug 2005	0.87 J	M031-A	2003 01 (Spring)
Cadmium (UG/L)	3	21	5.1	M027-A	19 Apr 2006	4.0 J	M027-A	2005 01 (Spring)
Chromium (UG/L)	14	21	4.7 J	M001-A	19 Apr 2006	3.2 J	M026-A	2004 04 (Winter)
Cobalt (UG/L)	21	21	2.0	M002-A	25 Aug 2005	6.1 J	M003-A	2002 03 (Fall)
Copper (UG/L)	21	21	20.0	M001-A	19 Apr 2006	13.3	M031-A	2003 04 (Winter)
Lead (UG/L)	5	21	0.47 J	M001-A	25 Aug 2005	3.6 J	M028-A	2004 01 (Spring)
Manganese (UG/L)	21	21	1400	M028-E	25 Aug 2005	6760	M001-E	2003 04 (Winter)
Mercury (UG/L)	2	21	0.14 J	M006-A	18 Apr 2006	0.30 J	M032-A	2003 04 (Winter)
Molybdenum (UG/L)	20	21	9.3 J	M001-A	19 Apr 2006	38.5 J	M026-A	2003 04 (Winter)
Nickel (UG/L)	21	21	16.0 J	M030-A	18 Apr 2006	53.7	M028-A	2004 01 (Spring)
Selenium (UG/L)	21	21	17.0 J	M026-A	25 Aug 2005	22.0	M026-E	2002 04 (Winter)
Silver (UG/L)	5	21	2.7 J	M026-A	18 Apr 2006	0.53 J	M026-A	2002 02 (Summer)
Thallium (UG/L)	10	21	4.4 J	M001-A	25 Aug 2005	6.1	M028-E	2005 01 (Spring)
Vanadium (UG/L)	21	21	15.0	M003-A	18 Apr 2006	13.0	M003-A	2004 02 (Summer)
Zinc (UG/L)	21	21	1200	M031-A	19 Apr 2006	100 J	M028-A	2002 04 (Winter)
Aluminum (UG/L)	4	21	13.0 J	M026-A	25 Aug 2005	120	M029-A	2005 01 (Spring)
Iron (UG/L)	21	21	20000	M028-E	25 Aug 2005	27000	M028-E	2004 04 (Winter)
Calcium (MG/L)	21	21	280	M002-A	25 Aug 2005	540	M026-E	2004 04 (Winter)
Magnesium (MG/L)	21	21	710	M026-A	25 Aug 2005	1100	M026-A	2004 04 (Winter)
Potassium (MG/L)	21	21	220	M026-A	25 Aug 2005	427 J	M025-A	2003 03 (Fall)
Sodium (MG/L)	21	21	6100	M026-A	25 Aug 2005	8400	M026-A	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	6	8	0.64 J	M001-B	25 Aug 2005	0.21 J	M003-B	2004 04 (Winter)
Arsenic (UG/L)	8	8	53.0	M027-B	18 Apr 2006	48.3 J	M027-B	2003 02 (Summer)
Barium (UG/L)	8	8	480	M027-B	18 Apr 2006	500	M027-B	2002 02 (Summer)
Beryllium (UG/L)	5	8	0.57 J	M003-B	20 Apr 2006	--	NA	NA
Cadmium (UG/L)	1	8	0.16 J	M031-C	25 Aug 2005	0.63 J	M030-C	2003 02 (Summer)
Chromium (UG/L)	7	8	2.3 J	M030-C	19 Apr 2006	10.0 J	M025-C	2002 02 (Summer)
Cobalt (UG/L)	8	8	8.6	M001-B	25 Aug 2005	9.3	M001-B	2004 02 (Summer)
Copper (UG/L)	8	8	3.6 J	M030-C	26 Aug 2005	9.8 J	M003-B	2002 04 (Winter)
Lead (UG/L)	3	8	0.50 J	M001-B	25 Aug 2005	0.60 J	M028-C	2004 02 (Summer)
Manganese (UG/L)	8	8	8300	M001-B	25 Aug 2005	8900	M001-B	2004 04 (Winter)
Mercury (UG/L)	3	8	0.27	M003-B	20 Apr 2006	0.27	M030-C	2002 02 (Summer)
Molybdenum (UG/L)	8	8	4.0 J	M001-B	25 Aug 2005	32.0 J	M001-B	2003 04 (Winter)
Nickel (UG/L)	8	8	8.8 J	M001-B	25 Aug 2005	14.0 J	M001-B	2003 04 (Winter)
Selenium (UG/L)	8	8	33.0 J	M030-C	26 Aug 2005	58.0	M003-B	2002 04 (Winter)
Silver (UG/L)	8	8	8.1	M001-B	18 Apr 2006	4.8 J	M001-B	2002 02 (Summer)
Thallium (UG/L)	6	8	11.0	M001-B	18 Apr 2006	0.78 J	M001-B	2004 04 (Winter)
Vanadium (UG/L)	8	8	1.3 J	M001-B	25 Aug 2005	6.8 J	M030-C	2002 02 (Summer)
Zinc (UG/L)	8	8	100	M030-C	26 Aug 2005	470	M031-C	2002 02 (Summer)
Aluminum (UG/L)	3	8	43.0 J	M025-C	18 Apr 2006	110 J	M025-C	2005 01 (Spring)
Iron (UG/L)	8	8	19000	M027-B	29 Aug 2005	17000	M027-B	2004 02 (Summer)
Calcium (MG/L)	8	8	670	M028-C	19 Apr 2006	660	M028-C	2002 04 (Winter)
Magnesium (MG/L)	8	8	1100	M030-C	19 Apr 2006	1150	M030-C	2003 02 (Summer)
Potassium (MG/L)	8	8	190 J	M003-B	20 Apr 2006	269	M003-B	2003 04 (Winter)
Sodium (MG/L)	8	8	8600	M030-C	19 Apr 2006	8800	M030-C	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (First Water-Bearing Zone)								
Organochlorine Pesticides								
Aldrin (UG/L)	1	8	0.010 J	M028-E	19 Apr 2006	0.14	M028-E	2004 01 (Spring)
alpha-BHC (UG/L)	1	8	0.020 J	M028-E	25 Aug 2005	0.084	M028-E	2004 01 (Spring)
beta-BHC (UG/L)	3	8	0.030 J	M028-A	26 Aug 2005	2.4	M028-E	2004 01 (Spring)
delta-BHC (UG/L)	1	8	0.030 J	M028-E	19 Apr 2006	0.054	M028-E	2004 01 (Spring)
gamma-BHC (UG/L)	1	8	0.0090 J	M028-E	19 Apr 2006	0.031 J	M028-E	2004 01 (Spring)
alpha-Chlordane (UG/L)	1	8	0.030 J	M028-E	25 Aug 2005	--	NA	NA
gamma-Chlordane (UG/L)	1	8	0.010 J	M028-E	25 Aug 2005	0.020 J	M028-E	2005 01 (Spring)
4,4'-DDE (UG/L)	1	8	0.030 J	M028-A	26 Aug 2005	0.080 J	M028-E	2004 04 (Winter)
Dieldrin (UG/L)	1	8	0.040 J	M028-E	25 Aug 2005	0.069 J	M028-E	2004 01 (Spring)
Endosulfan Sulfate (UG/L)	1	8	0.030 J	M028-E	25 Aug 2005	0.020 J	M028-E	2005 01 (Spring)
Endrin (UG/L)	2	8	0.050 J	M028-A	26 Aug 2005	--	NA	NA
Endrin ketone (UG/L)	1	8	0.020 J	M028-E	25 Aug 2005	0.070 J	M030-A	2004 04 (Winter)
Heptachlor epoxide (UG/L)	1	8	0.080	M028-E	25 Aug 2005	0.020 J	M028-A	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (First Water-Bearing Zone)								
Radionuclides								
Alpha (900.0) (PCI/L)	3	22	2.3 J	M030-A	18 Apr 2006	140	M029-E	2004 02 (Summer)
Beta (900.0) (PCI/L)	22	22	179	M026-A	25 Aug 2005	271	M026-A	2002 02 (Summer)
Potassium 40 (901.1) (PCI/L)	1	16	47.9 J	M028-E	19 Apr 2006	873	M034-A	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	6	22	2.1	M025-A	26 Aug 2005	3.7	M025-A	2003 02 (Summer)
Ra-228 (904.0) (PCI/L)	1	22	1.9 J	M033-A	19 Apr 2006	5.3	M001-E	2003 02 (Summer)
Strontium (Sr) Total (905.0) (PCI/L)	2	16	27.5	M001-E	18 Apr 2006	5.3	M034-A	2003 03 (Fall)
Uranium 233/234 (908.0) (PCI/L)	9	16	0.92	M002-A	20 Apr 2006	1.3	M002-A	2004 01 (Spring)
Uranium 235/236 (U02RC) (PCI/L)	1	16	0.026 J	M032-A	19 Apr 2006	--	NA	NA
Uranium 238 (908.0) (PCI/L)	10	16	1.1	M002-A	20 Apr 2006	1.2	M004-A	2003 04 (Winter)
Uranium Total (U02RC) (PERCENT)	1	16	1.6	M032-A	19 Apr 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (Second Water-Bearing Zone)								
Radionuclides								
Beta (900.0) (PCI/L)	8	8	377 J	M001-B	18 Apr 2006	265	M028-C	2002 02 (Summer)
Bismuth 214 (901.1) (PCI/L)	1	8	11.7	M031-C	19 Apr 2006	59.7	M027-B	2003 04 (Winter)
Potassium 40 (901.1) (PCI/L)	7	8	179	M003-B	20 Apr 2006	774	M030-C	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	8	8	1.4	M031-C	25 Aug 2005	8.4	M001-B	2003 02 (Summer)
Ra-228 (904.0) (PCI/L)	8	8	3.4 J	M001-B	18 Apr 2006	11.8	M028-C	2003 03 (Fall)
Strontium (Sr) Total (905.0) (PCI/L)	2	8	4.8 J	M031-C	19 Apr 2006	--	NA	NA
Uranium 233/234 (908.0) (PCI/L)	7	8	3.7	M001-B	18 Apr 2006	3.6	M001-B	2003 04 (Winter)
Uranium 235/236 (U02RC) (PCI/L)	1	8	0.14 J	M001-B	18 Apr 2006	--	NA	NA
Uranium 238 (908.0) (PCI/L)	6	8	3.1	M001-B	18 Apr 2006	2.4	M001-B	2004 02 (Summer)
Uranium Total (U02RC) (PERCENT)	1	8	0.72	M001-B	18 Apr 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	5	5	520	M027-A	26 Aug 2005	570	M027-A	2002 02 (Summer)
Sulfide (MG/L)	2	5	0.070	M028-A	26 Aug 2005	0.15 J	M033-A	2004 04 (Winter)
Alkalinity, bicarbonate (MG/L)	5	5	520	M027-A	26 Aug 2005	570	M027-A	2002 02 (Summer)
Ethane (MG/L)	3	5	2.5	M028-E	25 Aug 2005	2.6	M028-E	2004 02 (Summer)
Ethene (MG/L)	1	5	6.9	M028-E	25 Aug 2005	22.0	M028-E	2004 04 (Winter)
Methane (MG/L)	5	5	9.9	M028-E	25 Aug 2005	17.0	M028-E	2004 04 (Winter)
Total Dissolved Solids (MG/L)	5	5	1820	M004-A	18 Apr 2006	2020	M027-A	2004 04 (Winter)
Nitrate (MG/L)	3	5	1.0	M004-A	18 Apr 2006	3.2	M027-A	2002 04 (Winter)
Chloride (MG/L)	5	5	600	M027-A	26 Aug 2005	783	M027-A	2003 04 (Winter)
Sulfate (as SO4) (MG/L)	5	5	150	M027-A	26 Aug 2005	260	M027-A	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

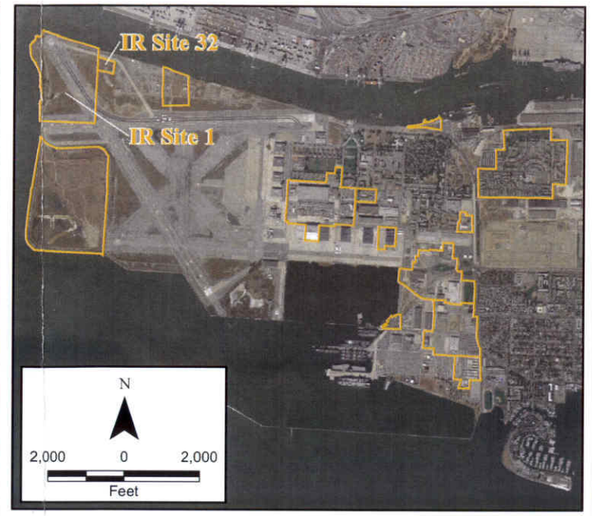
Table 3-12

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Sites 1 and 32

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Sites 1 and 32 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	2	2	1100	M003-B	25 Aug 2005	1010	M003-B	2003 04 (Winter)
Alkalinity, bicarbonate (MG/L)	2	2	1100	M003-B	25 Aug 2005	1010	M003-B	2003 04 (Winter)
Methane (MG/L)	2	2	0.081	M003-B	25 Aug 2005	0.093	M003-B	2004 04 (Winter)
Total Dissolved Solids (MG/L)	2	2	23100	M003-B	25 Aug 2005	24400	M003-B	2004 04 (Winter)
Chloride (MG/L)	2	2	14000	M003-B	25 Aug 2005	14000	M003-B	2004 02 (Summer)
Sulfate (as SO4) (MG/L)	2	2	1400	M028-C	25 Aug 2005	1430	M028-C	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundaries
- Facility Infrastructure

N

400 0 400

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004 National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Sites 1&32\Annual 1&32 Location Map_NAD83.mxd

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FIGURE 3-1
IR SITES 1 AND 32
SITE AND WELL LOCATION MAP

Legend

- FWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- Hachures indicate Closed Depression in Groundwater Contours
- SWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- Hachures indicate Closed Depression in Groundwater Contours
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility Infrastructure

"A" well used for contouring at locations where both "A" and "E" wells exist

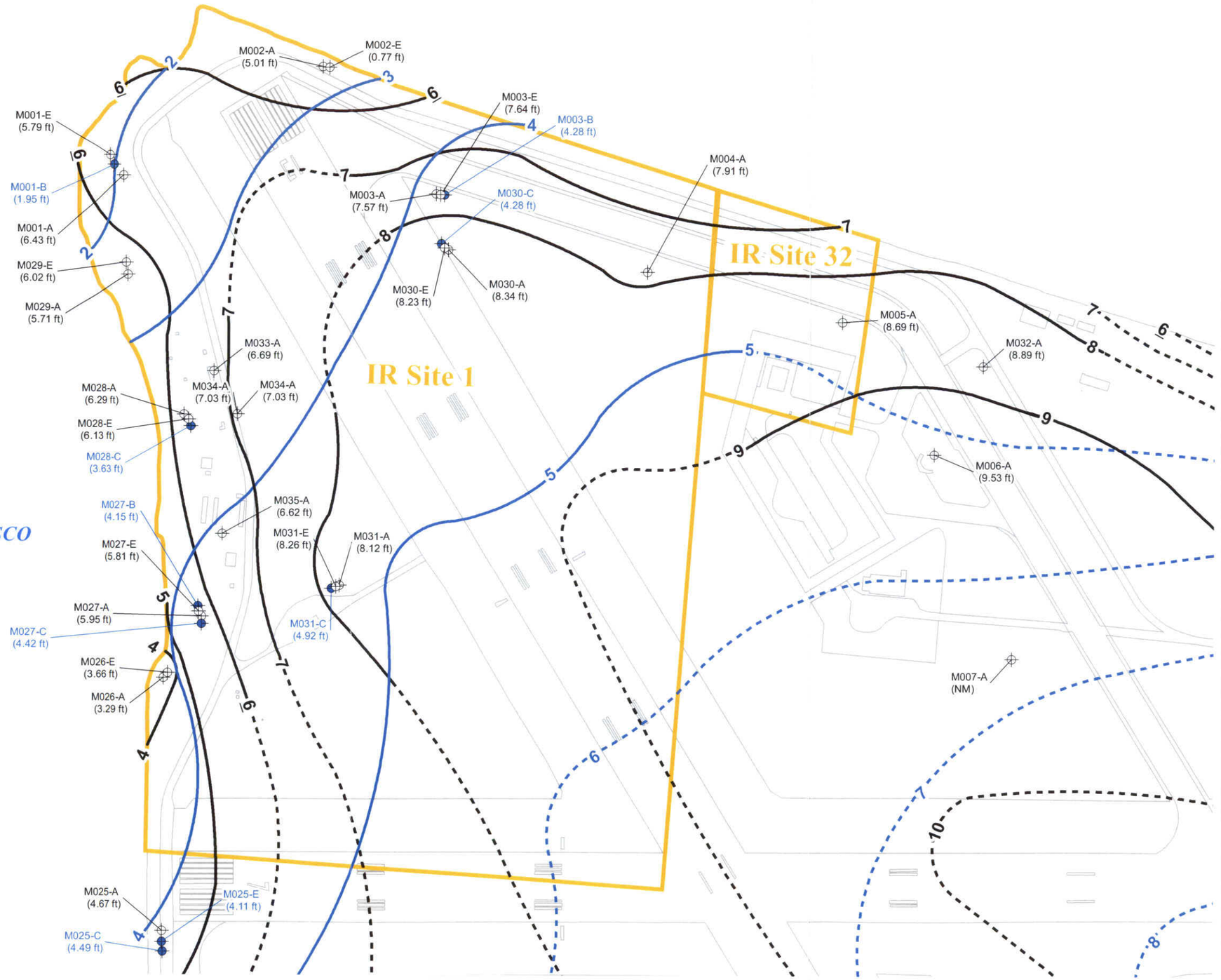

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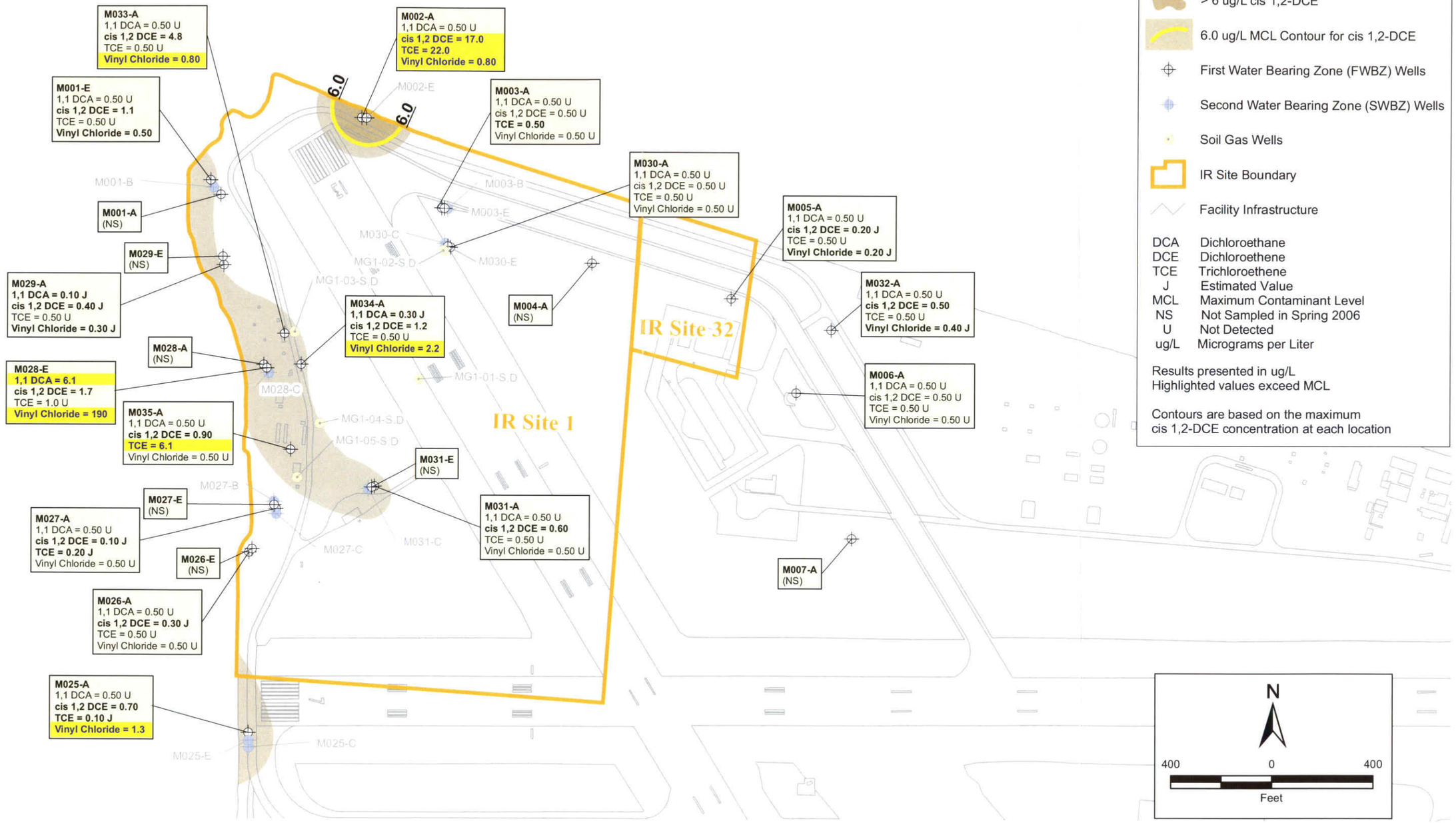
FIGURE 3-2
IR SITES 1 AND 32
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 1&32 GW ContourS Spr 2006.mxd



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 2006 1&32 Chlorinated HydroC Map_SP.mxd

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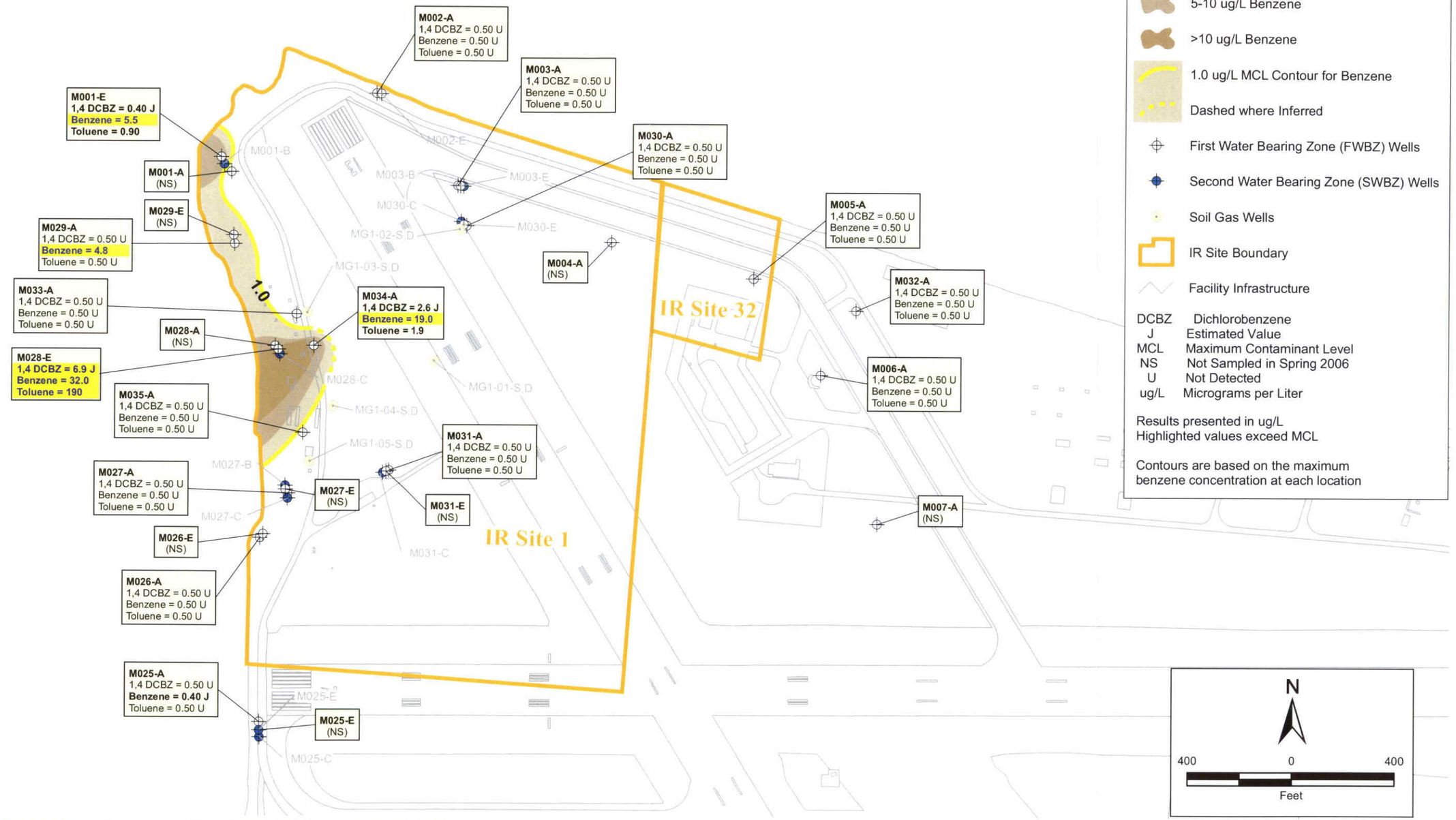
FIGURE 3-3
IR SITES 1 AND 32
GROUNDWATER DISTRIBUTION OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 2006 1&32 Aromatic HydroC Map_SP.mxd

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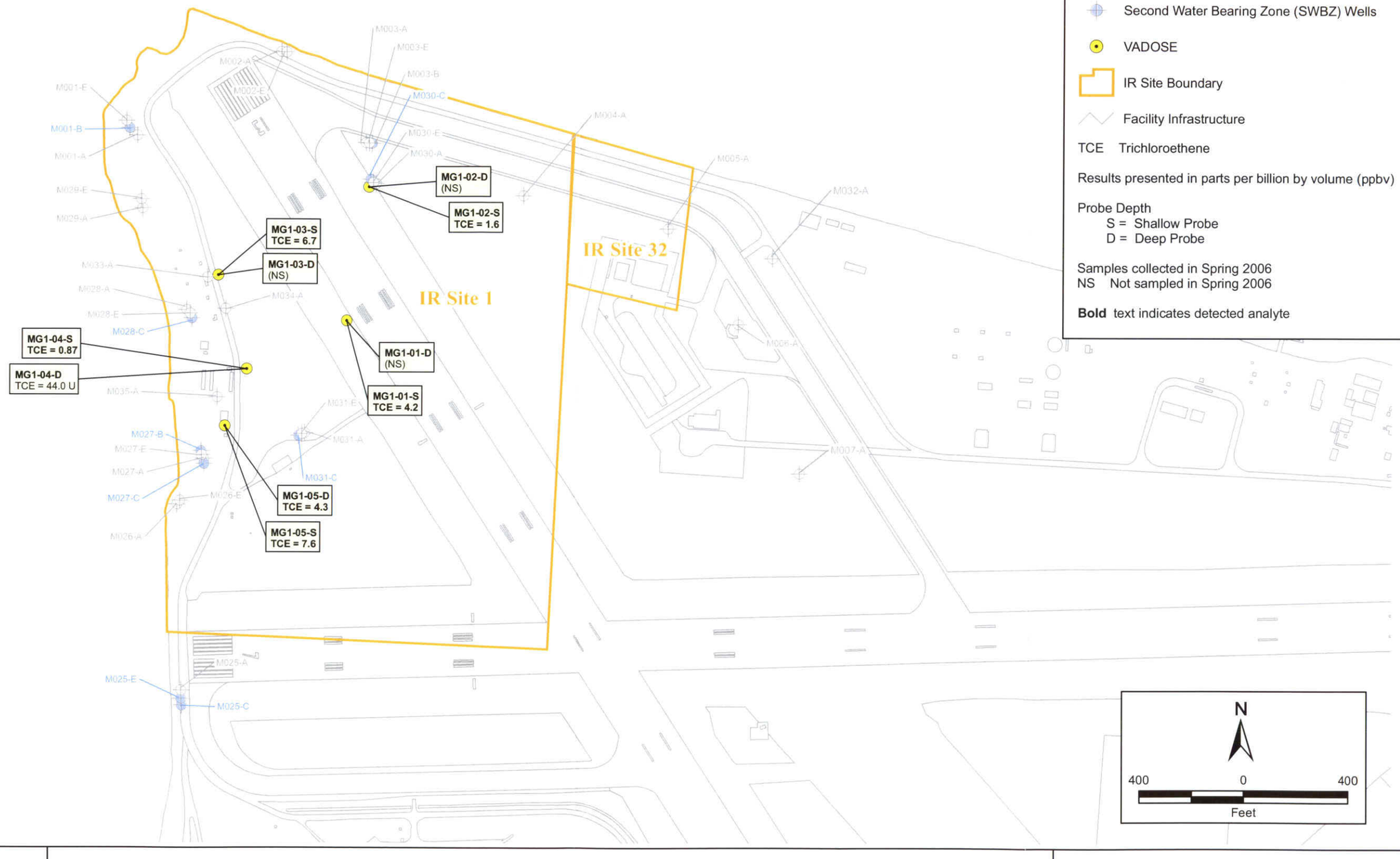
FIGURE 3-4
IR SITES 1 AND 32
GROUNDWATER DISTRIBUTION OF SELECTED AROMATIC HYDROCARBONS ABOVE CRITERIA
SPRING 2006



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- VADOSE
- IR Site Boundary
- Facility Infrastructure

TCE Trichloroethene

Results presented in parts per billion by volume (ppbv)

Probe Depth
S = Shallow Probe
D = Deep Probe

Samples collected in Spring 2006
NS Not sampled in Spring 2006

Bold text indicates detected analyte

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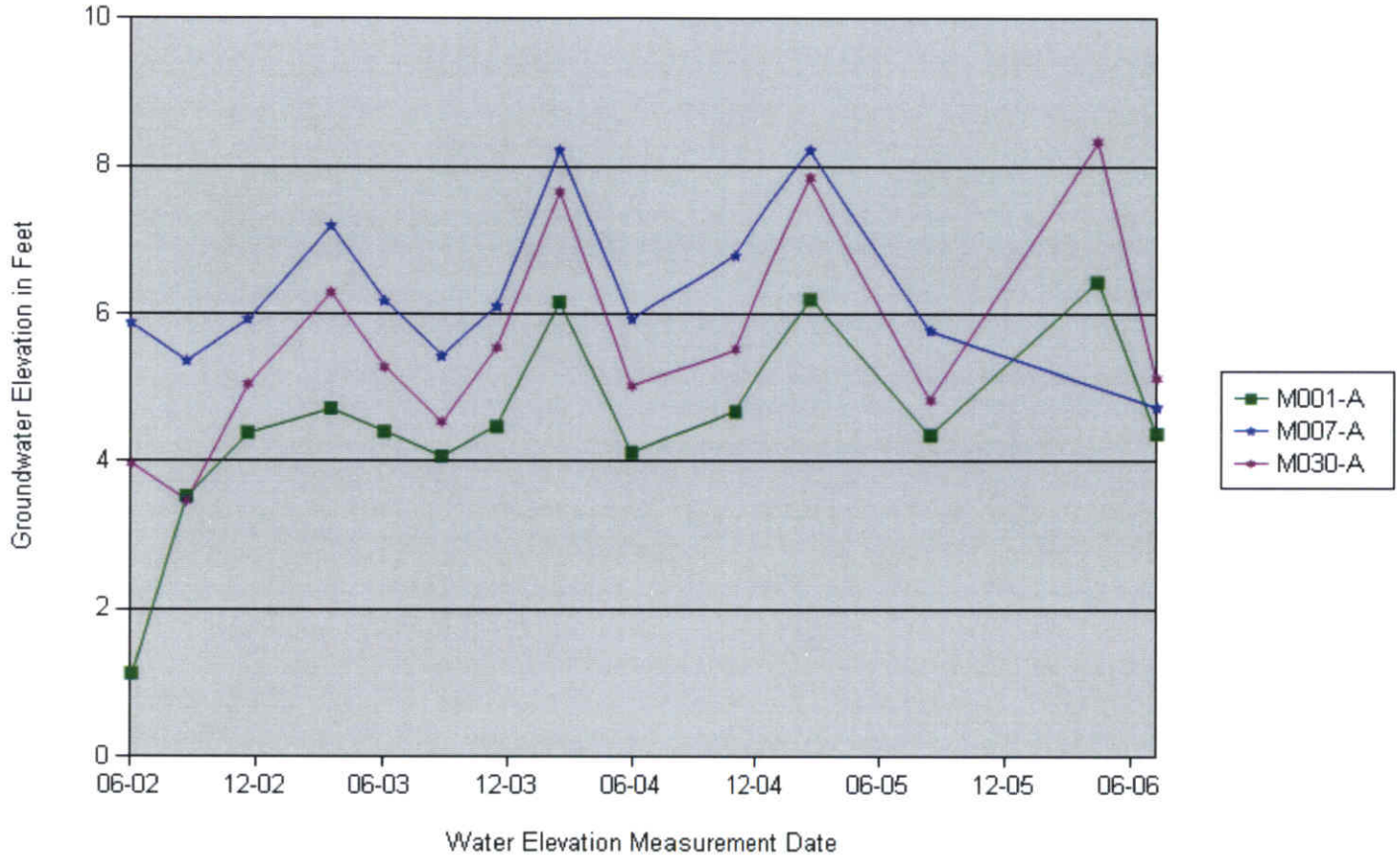
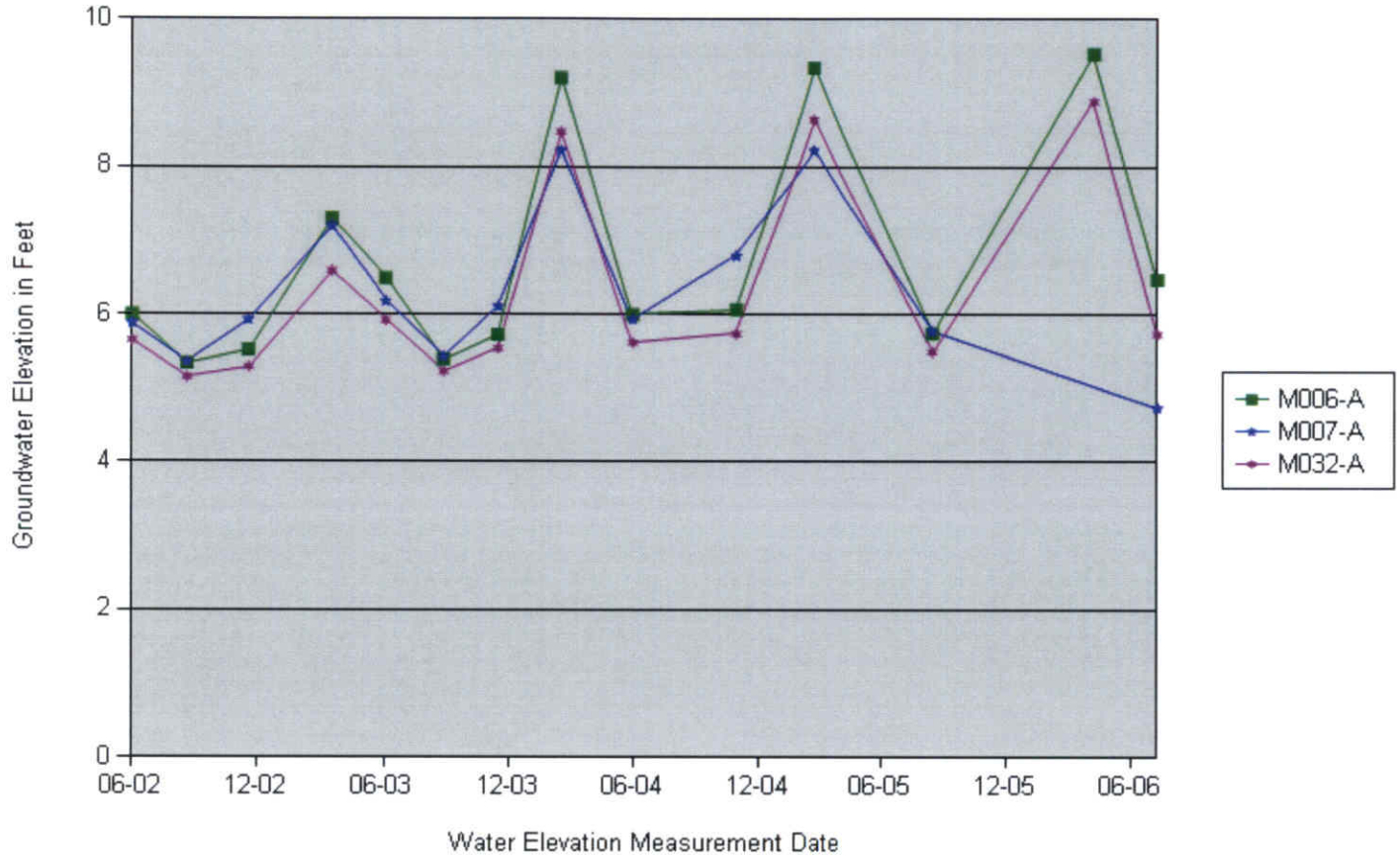
FIGURE 3-5
IR SITE 1 AND 32
SELECTED SOIL GAS ANALYTICAL DETECTIONS
SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Site 1&32Sum05 1&32 Soil Gas Detect Map.mxd



ITSI Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 3-6a** TRENDS IN GROUNDWATER ELEVATIONS AT IR SITES 1 & 32: NORTH-WEST ORIENTED FWBZ WELLS SUMMER 2002 THROUGH SPRING 2006



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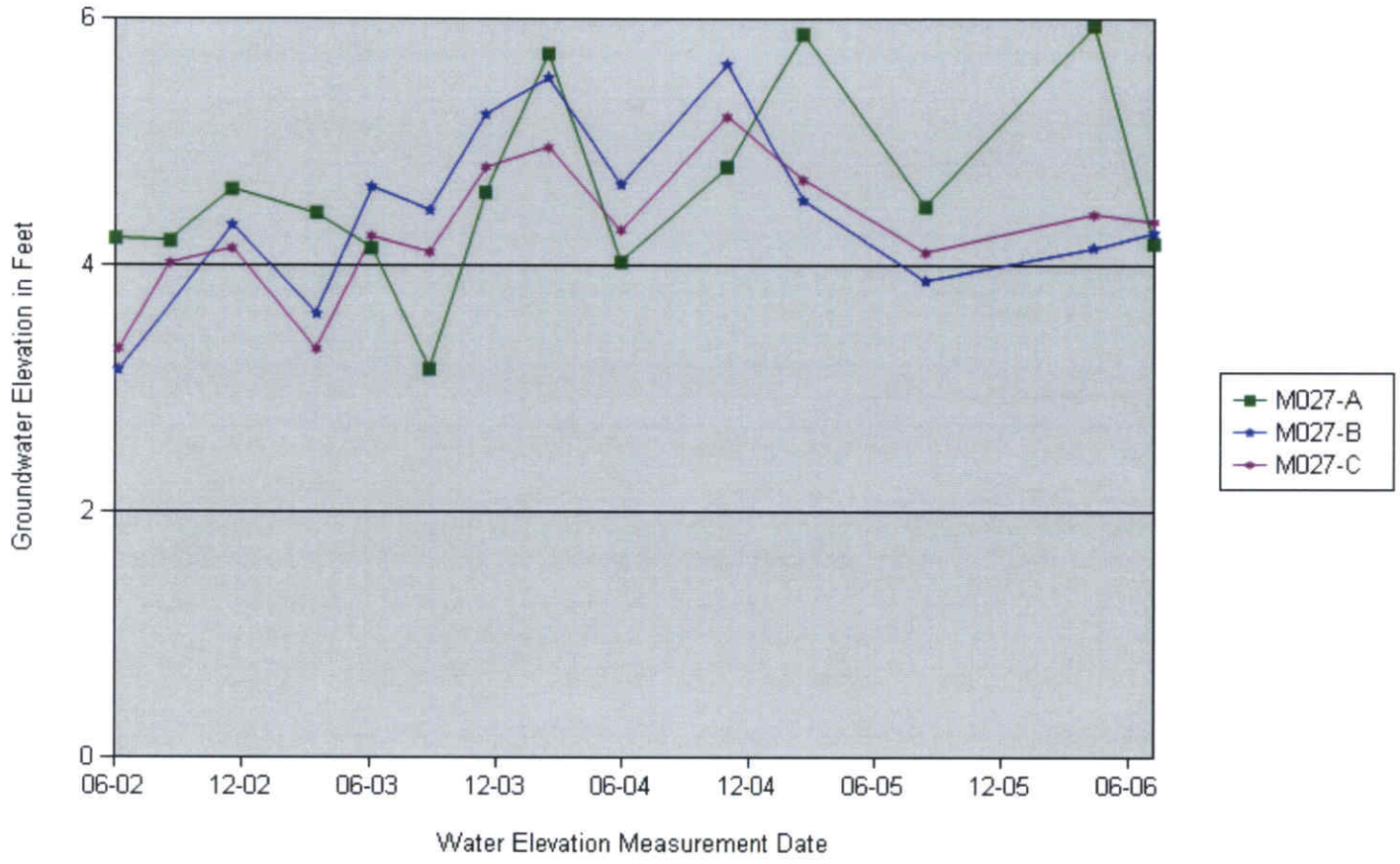

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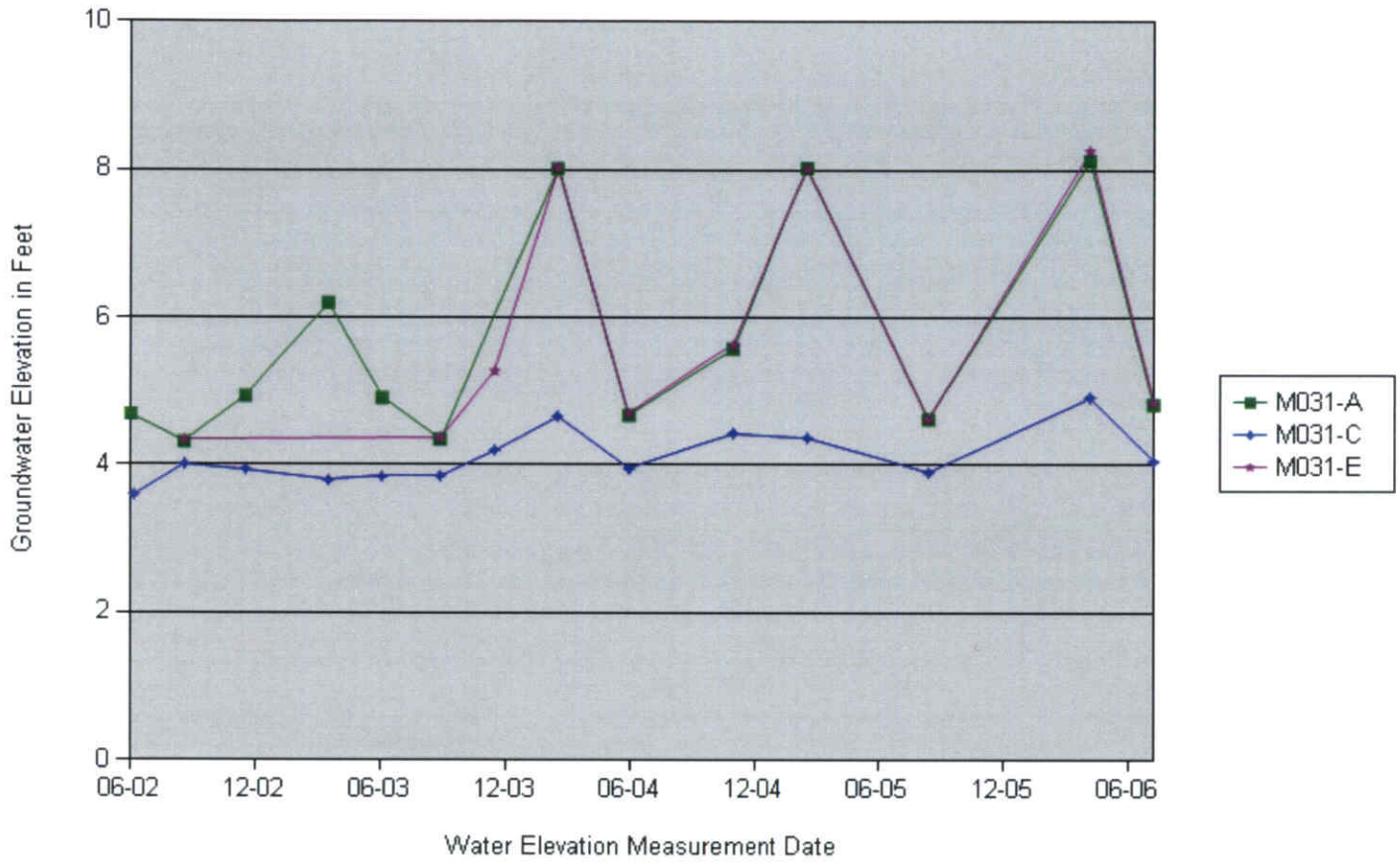

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FIGURE 3-6d
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITES 1 & 32:
CLUSTERED WELLS ~~WITHIN~~ OUTSIDE ZONE OF TIDAL INFLUENCE AT SITE 1
SUMMER 2002 THROUGH SPRING 2006

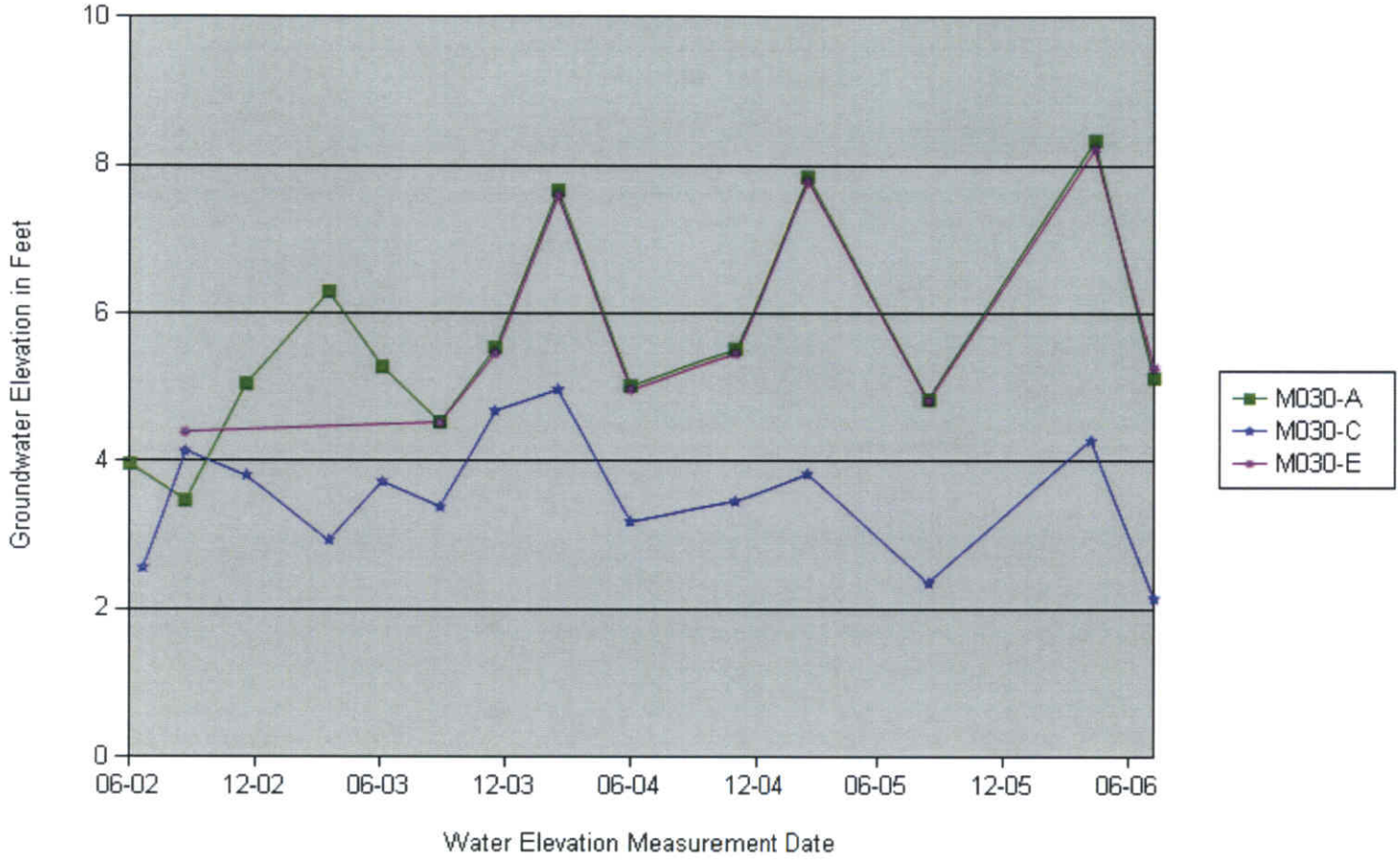

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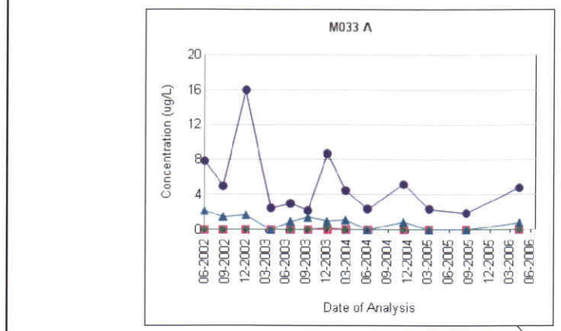
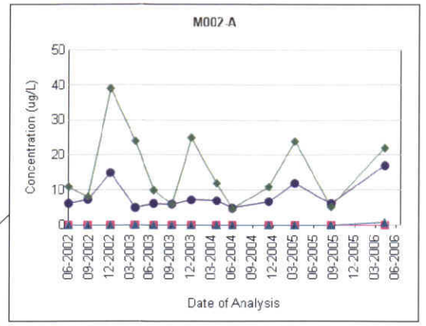
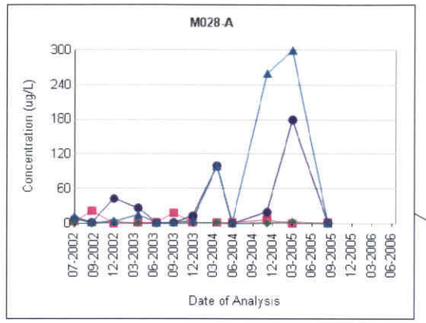
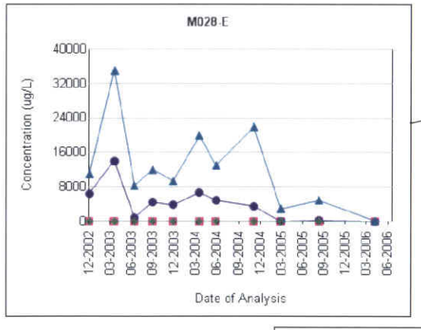
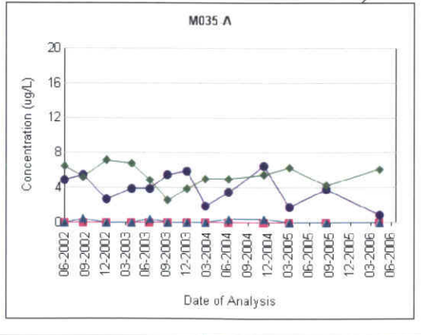
FIGURE 3-6e
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITES 1 & 32:
CLUSTERED WELLS OUTSIDE ZONE OF TIDAL INFLUENCE AT SIDE 1
SUMMER 2002 THROUGH SPRING 2006

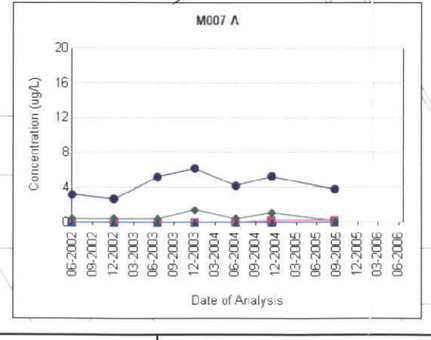


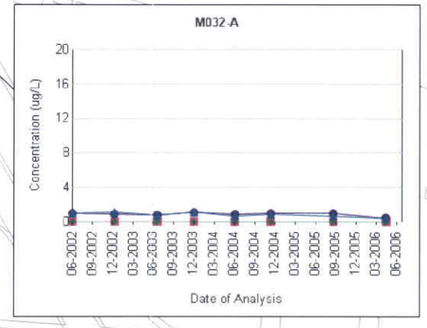


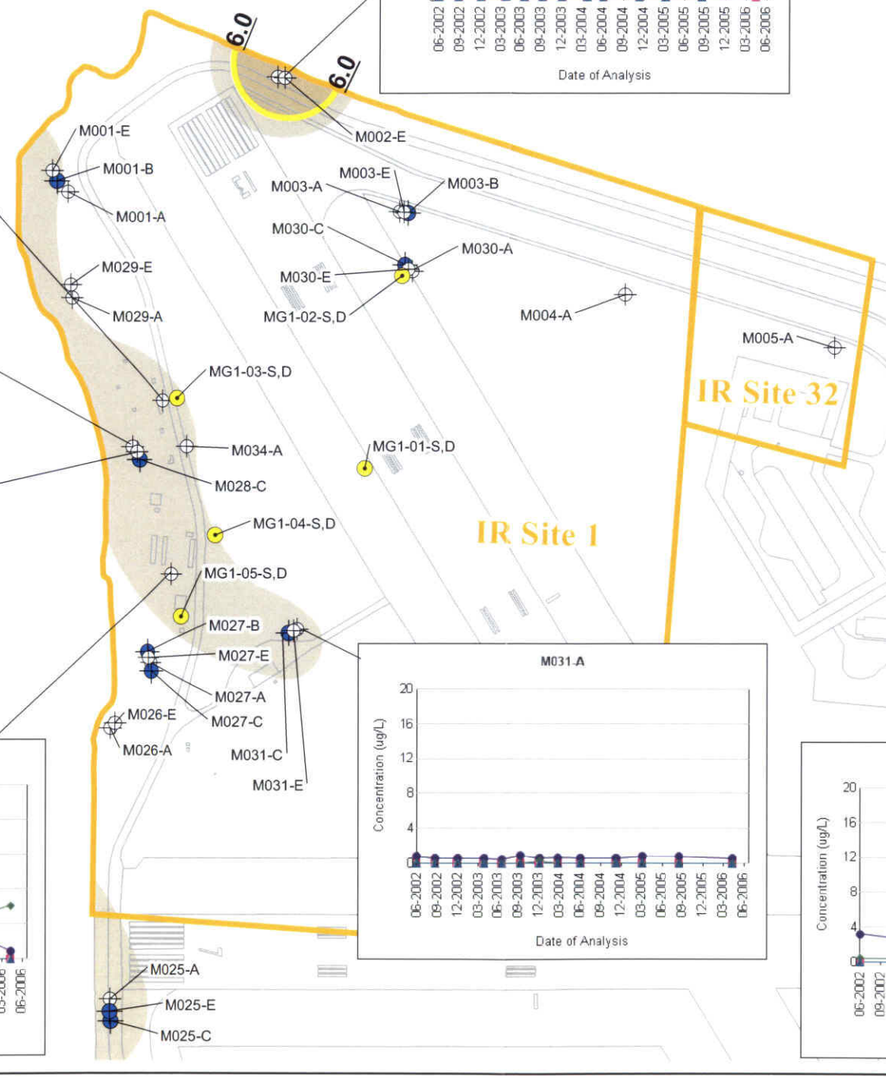












Legend

- 0.5 - 6 ug/L cis 1,2-DCE
- > 6 ug/L cis 1,2-DCE
- 6.0 ug/L MCL Contour for cis 1,2-DCE
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility Infrastructure

1,1 DCA
cis 1,2 DCE
TCE
Vinyl Chloride

Analyte	MCL	Units
1,1 DCA	5.0	UG/L
cis 1,2 DCE	6.0	UG/L
TCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

N

400 0 400

Feet

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Trend Maps\Spr 2006 1&32 Chlor HydroC Trend Map.mxd

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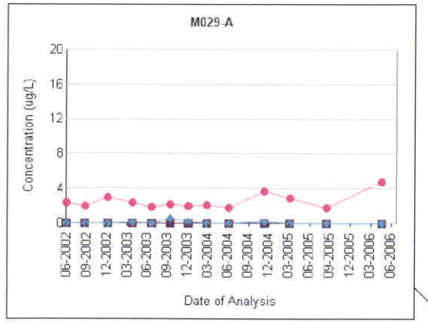
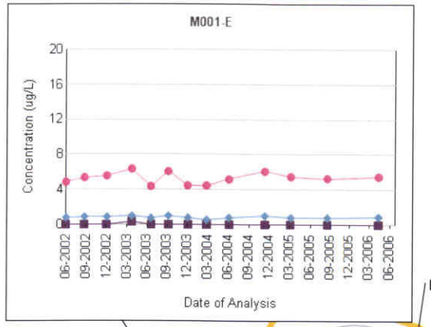
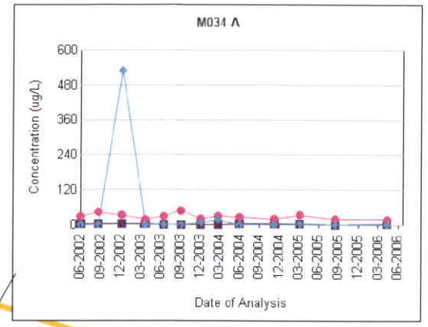
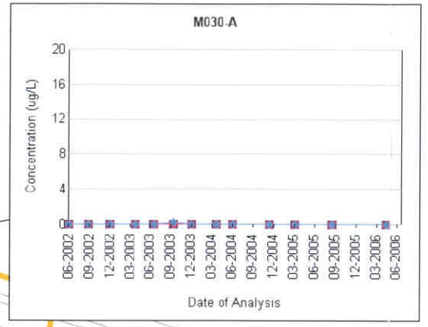
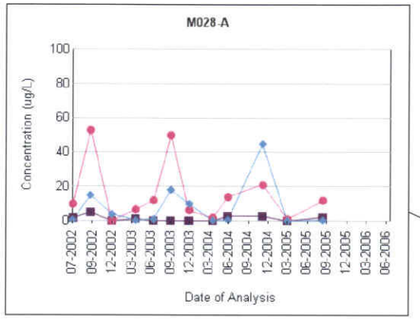
FIGURE 3-7
IR SITES 1 AND 32
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

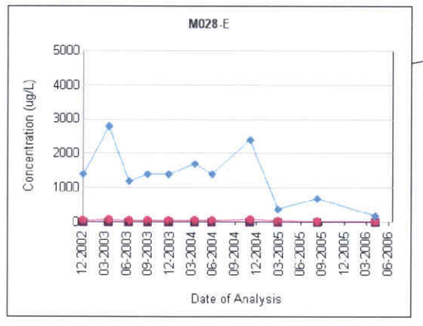


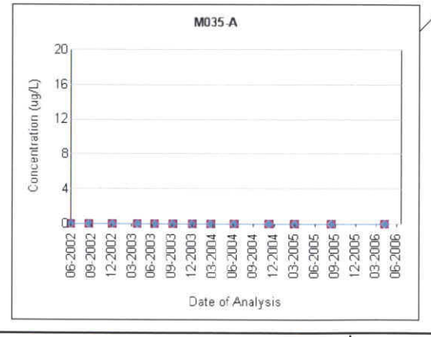


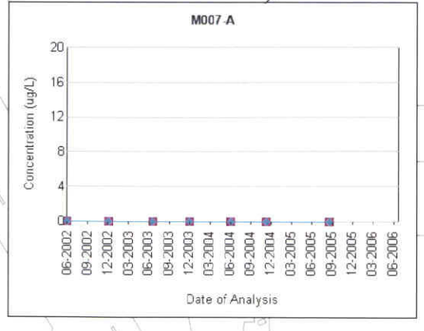












M002-A
M002-E
M001-B
M001-A
M003-A
M003-E
M003-B
M030-C
M030-A
M030-E
M029-A
M033-A
MG1-03-S,D
MG1-02-S,D
M004-A
M005-A
M032-A
M006-A
MG1-01-S,D
M028-C
M028-C
MG1-04-S,D
MG1-05-S,D
M027-B
M027-E
M027-A
M027-C
M031-E
M031-A
M031-C
M026-E
M026-A
M025-A
M025-E
M025-C
1.0
IR Site 32
IR Site 1

Legend

- 1 - 5 ug/L Benzene
- 5 - 10 ug/L Benzene
- > 10 ug/L Benzene
- 1.0 ug/L MCL Contour for Benzene
- Dashed where Inferred
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility Infrastructure

1,4 DCBZ
Benzene
Toluene

Analyte	MCL	Units
1,4 DCBZ	5.0	UG/L
Benzene	1.0	UG/L
Toluene	150	UG/L

N

400 0 400

Feet

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Trend Maps\Spr 2006 1&32 Arom HydroC Trend Map.mxd

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FIGURE 3-8
IR SITES 1 AND 32
GROUNDWATER CONCENTRATIONS OF AROMATIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

4.0 INSTALLATION RESTORATION SITE 2

IR Site 2 is located in the southwestern corner of Alameda Point, west of former Runway 31, immediately south of IR Site 1 and east of San Francisco Bay. The rectangular-shaped site encompasses approximately 110 acres and consists entirely of open space, the extreme southwest corner of which is classified as a wetland. The site layout, showing groundwater and landfill gas monitoring well locations, is presented on Figure 4-1.

IR Site 2 is the former West Beach Landfill, which was operated from the 1950s through 1978. Solid wastes disposed in the landfill included dredge spoils, batteries, ordnance, radiological materials (i.e., instrument dials with radium paint), asbestos, scrap metal, and spent sandblast abrasives. Liquid wastes disposed in the landfill include solvents, paints, plating bath sludge, waste oil, PCBs, pesticides, and medical wastes. During the 1980s, the landfill was covered with soil that was excavated from the south area of the landfill. An earthen berm approximately 55 feet wide and seven feet high marks the northeast corner of the disposal area and the entire area is surrounded by a raised berm. The berm is covered with vegetation and provides a nesting ground for birds and other wildlife (Shaw 2004).

Potential sources of contamination include the following:

- Landfill materials or waste;
- Road surfaces that were constructed with sandblast grit where oil potentially containing PCBs was used for dust suppression;
- Radionuclides and ordnance present in the surface soil.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 2 included sampling and analysis of 43 groundwater monitoring wells (30 FWBZ wells and 13 SWBZ wells) and 13 soil gas monitoring points. Another three FWBZ groundwater monitoring wells are used for quarterly groundwater-level measurement only. All groundwater and soil gas monitoring points in the Summer 2005 and Spring 2006 program and their analytical requirements are listed in Table 4-1. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled)

that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 4-1.

4.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 46 groundwater monitoring wells during the Summer 2005 and Spring 2005 sampling events at IR Site 2. The results are presented along with previously collected water-level data in Table 4-2. Groundwater gradient and flow direction are discussed in Section 4.4.1, and trends in groundwater elevation are discussed in Section 4.4.4.

4.2 ANALYTICAL PARAMETERS

Groundwater samples collected from monitoring wells at IR Site 2 during the Summer 2005 and Spring 2005 sampling events were analyzed for the following parameters:

- TPH as Diesel, Jet Fuel, and Motor Oil by EPA Method 8015B
- TPH as Gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8310
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- PCBs by EPA Method 8082
- Organochlorine Pesticides by EPA Method 8081A
- Radionuclides by EPA Methods 9310/900.0, 901.1, 9315/903.0, 906.0, 904.0, 905.0, and 908 modified
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 4-1 lists the groundwater monitoring wells that are active in the current Basewide Monitoring Program and the analytical requirements for each well.

In addition, soil gas samples collected from landfill gas monitoring points were analyzed for VOCs (EPA Method TO-15) and Fixed Gases (ASTM Method D1946).

4.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 and Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 4-3 through 4-12 as follows:

- Table 4-3, "Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 4-4, "Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 4-5, "Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons, Summer 2002 through Spring 2006"
- Table 4-6, "Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 4-7, "Groundwater Sample Analytical Results at IR Site 2: Polychlorinated Biphenyls, Spring 2004 through Spring 2006"
- Table 4-8, "Groundwater Sample Analytical Results at IR Site 2: Organochlorine Pesticides, Spring 2004 through Spring 2006"
- Table 4-9, "Groundwater Sample Analytical Results at IR Site 2: Radionuclides, Summer 2002 through Spring 2006"
- Table 4-10, "Groundwater Sampling Field Parameters at IR Site 2, Summer 2002 through Spring 2006"
- Table 4-11, "Groundwater Sample Analytical Results at IR Site 2: Natural Attenuation Parameters, Summer 2002 through Spring 2006"
- Table 4-12, "Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases, Fall 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background*

Concentrations in Soil and Groundwater (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

Some of the radionuclide analyses normally included on the analyte list were temporarily suspended during the Fall/Winter 2004 through Summer 2005 events. The suspended radionuclide analyses were Gamma-Emitting Radionuclides (EPA Method 901.1), Radioactive Strontium (EPA Method 905.0), and Uranium Isotopes (EPA Method 908.0 Modified). These analyses were not considered to be critical to the ongoing groundwater monitoring program for radionuclides, based on a review of the historic data and the known and suspected sources of radiological materials present at Alameda Point. Appropriate analytical methods for gross radiological parameters (alpha and beta) and specific radionuclide isotopes, specifically total radium (EPA Method 903.0), radium-228 (EPA Method 904.0), and tritium (EPA Method 906.0), were retained. As of the Spring 2006 sampling event, the above-listed suspended methods were re-inserted into the sampling program for the site.

4.4 DISCUSSION OF RESULTS

Concentrations of extractable TPH (mainly diesel), aromatic hydrocarbons (BTEX, naphthalene) and associated chlorinated aromatics (chlorobenzene, 1,4-DCBZ) have been consistently detected in groundwater samples collected from several groundwater monitoring wells screened in the FWBZ at IR Site 2. Groundwater concentrations of predominantly diesel-range hydrocarbons exceeding 100 µg/L are widespread in shallow groundwater underlying the site (Table 4-3).

The following VOC analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **benzene, chlorobenzene, 1,4-DCBZ, 1,2-DCA, and vinyl chloride** (Table 4-13). The distribution of VOCs in FWBZ groundwater monitoring wells at IR Site 2 is discussed more fully in Section 4.4.2.

TPH diesel and jet-fuel concentrations (at a maximum of 160 µg/L motor oil) were also detected in groundwater collected from five of the 13 monitoring wells screened in the SWBZ during

current sampling year events (Table 4-3). No volatile organic constituents were detected at concentrations exceeding MCLs in the SWBZ wells.

Groundwater concentrations of SVOCs were low to non-detect for all wells sampled during the Summer 2005 through Spring 2006 season. The following SVOC analytes were detected at concentrations exceeding their respective MCLs in FWBZ and SWBZ wells during the Summer 2004 to Spring 2005 sampling year: benzo(a)pyrene, **bis (2-ethylhexyl) phthalate, and 1,4-DCBZ** (Table 4-13). Note that benzo(a)pyrene and 1,4-DCBZ are two of a few compounds analyzed by and reported under more than one analytical method; benzo(a)pyrene is analyzed under the SVOC and PAH methods, and 1,4-DCBZ is analyzed under VOC and SVOC test methods. Of these SVOCs above MCLs, benzo(a)pyrene and bis(2-ethylhexyl)phthalate are not believed to represent contaminant plumes, as neither have shown consistent detections above MCLs at any wells in IR Site 2. In addition, the well with the SVOC detection in Summer 2005 for benzo(a)pyrene (M016-B) had a non-detect result for this compound in Summer 2005 using the PAH method (Table 4-5); the PAH scan for benzo(a)pyrene has a considerably lower reporting limit, and is thus considered more accurate than the SVOC results for this compound. The results for 1,4-DCBZ are discussed in section 4.4.2.

Groundwater samples collected from IR Site 2 wells have consistently shown relatively low to non-detect concentrations of PAHs since sampling was initiated in Summer 2002 (Table 4-5). Generally, PAHs are most commonly associated with petroleum hydrocarbons. Concentrations of PAHs in groundwater at IR Site 2 (the maximum was naphthalene at 190 µg/L) were generally limited to wells showing TPH-diesel concentrations that exceeded 100 µg/L.

The following dissolved metals were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **antimony, arsenic, barium, selenium,** and **thallium** (Table 4-13). Cadmium and aluminum were detected at above MCLs in previous years, but not in the current sampling year. Most detections of dissolved metals, with the possible exception of certain detections of arsenic, barium, and selenium, were detected at concentrations that did not differ significantly from the published background values (TtEMI, 2001b).

Arsenic, selenium, and **thallium** were detected above their respective MCLs in one or more SWBZ wells. However, concentrations of these metals have been very irregular in SWBZ wells, with non-detects frequently being reported at the same wells. Thallium had not previously shown detections above MCLs, while antimony and cadmium had MCL exceedances in previous events but not in the current sampling year. No background values have been established for metals in SWBZ groundwater.

One detectable PCB concentration was found in groundwater samples collected from IR Site 2 wells in the current sampling year; an estimated concentration of 0.15 µg/L Aroclor 1260 in well M021-A in the Summer 2005 sampling event (Table 4-13). Prior to the current year, only one other sample showed a detectable PCB concentration since sampling for PCBs was initiated at IR Site 2 in Spring 2004. **Aroclor 1242** was detected above the MCL (0.5 µg/L) in one well, at a concentration of 0.89 µg/L in groundwater collected in Summer 2004 from well M036-A, but has not been detected in subsequent samples (Table 4-7).

Low concentrations of organochlorine pesticides have been consistently detected in certain groundwater sampling locations collected from IR Site 2 wells since pesticide sampling was initiated in Spring 2004. Heptachlor epoxide was detected at a concentration exceeding its MCL in one FWBZ well during the Summer 2005 to Spring 2006 sampling year (Table 4-13). The distribution of organochlorine pesticides in FWBZ groundwater monitoring wells at IR Site 2 is more restricted than in previous sampling years, when MCL exceedances were reported for several wells in the central portion of the site. The current MCL exceedance at M018-A was limited to one of the two sampling events, and was at a location not previously displaying an MCL exceedance. Thus the current extent of any pesticide contaminant plume is believed to be quite localized in extent.

The results of the Summer 2005 and Spring 2006 radionuclide analysis are discussed below followed by the results of an evaluation of the cumulative data set. The following radionuclides were detected in first and second water-bearing zones at concentrations exceeding their respective MCLs during the Summer 2005 to Spring 2006 sampling year (Tables 4-9 and 4-13):

First Water-Bearing Zone

- **Gross Alpha** was measured above the MCL of 15 pCi/L in two FWBZ wells, at a maximum concentration of 138 J pCi/L (estimated value) in groundwater collected from well M019-E in Summer 2005. The maximum concentration was considerably higher than any previous results for gross alpha in IR Site 2 groundwater samples.

- **Gross Beta** was measured above the MCL of 50 pCi/L in 28 FWBZ wells, at a maximum concentration of 431 pCi/L in groundwater collected from well M018-E in Summer 2005. Gross beta values are commonly present in groundwater collected from the FWBZ wells at concentrations above the MCL of 50 pCi/L.
- **Radium 226 and 228** were detected above the MCL of 5 pCi/L (for the sum of the isotopes) in eight FWBZ wells, at a maximum concentration of 29.9 pCi/L (sum of isotopes) in groundwater collected from well M022-E in Spring 2006.

Second Water-Bearing Zone

- **Gross Alpha** was measured above the MCL of 15 pCi/L in one SWBZ well, at a concentration of 55.2 J pCi/L (estimated value) in groundwater collected from well M016-B in Summer 2005. This concentration was the only gross alpha detection found in IR Site 2 groundwater samples collected during the current sampling year.
- **Gross Beta** was measured above the MCL of 50 pCi/L in 12 SWBZ wells, at a maximum concentration of 263 pCi/L in groundwater collected from well M038-B in Spring 2006. Gross beta values are commonly present in groundwater collected from the SWBZ wells at concentrations above the MCL of 50 pCi/L.
- **Radium 226 and 228** were detected above the MCL of 5 pCi/L (for the sum of the isotopes) in two SWBZ wells, at a maximum concentration of 6.4 pCi/L (sum of isotopes) in groundwater collected from well M038-B in Summer 2005.

Specific radioactive species that have been detected at IR Site 2 during the current sampling year include potassium 40, radium 226, radium 228, strontium, tritium, uranium 233/234, uranium 235, and uranium 238 (Table 4-9).

Soil gas results indicate concentrations of vapor-phase aromatic hydrocarbons (benzene, toluene, ethylbenzene, xylenes, naphthalene, chlorobenzene) are common in the vadose zone at IR Site 2. The highest VOC concentrations detected in soil gas during the current sampling year (Summer 2005 through Spring 2006) were: benzene at 500 J parts per billion by volume (ppbv) (estimated concentration), chlorobenzene at 1,100 ppbv, and naphthalene at 4,500 ppbv (Table 4-12). Soil gas VOC concentrations were typically higher in probes screened in the lower (deeper) portions of the vadose zone. The distribution of VOCs in soil gas at IR Site 2 is further discussed in Section 4.4.2.

4.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 4-2. Groundwater flow direction in the FWBZ at IR Site 2 is generally towards the southwest at a gradient ranging from approximately 0.002 to 0.007 feet per foot, with strong westward and southward flow components as groundwater approaches the site's San Francisco Bay shorelines. Groundwater monitoring wells along the western and southern shoreline limits of IR Site 2 show moderate to strong tidal influence (Shaw, 2005) as discussed in Section 1.3.

Groundwater flow direction in the SWBZ at IR Site 2 is generally towards the west and southwest at a gradient ranging from approximately 0.002 to 0.003 feet per foot. Water levels in SWBZ wells at inland locations at IR Site 2 are generally 1 to 3 feet lower than nearby FWBZ wells, indicating an overall downward vertical gradient. Locations along the shoreline show inversions of this downward gradient, because SWBZ wells there (at M-016, M-020, M-021, and M-023) have water levels up to about 2 feet higher than the FWBZ wells in the well cluster. Vertical gradients are discussed more fully in Section 4.4.4.

4.4.2 Groundwater Contaminant Distribution

Concentrations of aromatic hydrocarbons and associated chlorinated aromatics are present within a widespread zone of TPH-impacted groundwater at IR Site 2. The approximate distribution of aromatic hydrocarbons in groundwater is shown on Figure 4-3. Benzene was selected as an indicator compound to show the distribution of volatile organic constituents in groundwater. With the exception of detections during one event each of low concentrations of vinyl chloride (1.0 µg/L) in well 442-MW1 and 1,2-DCA (1.0 µg/L) in well M011-A, all volatile organic constituents that were detected at concentrations exceeding MCLs during the current sampling year (Summer 2005 through Spring 2006) fall within the plume boundaries shown on Figure 4-3. The highest concentrations of volatile organic constituents are generally found associated with relatively high concentrations (exceeding 100 µg/L) of TPH diesel, jet fuel, motor oil, and/or gasoline in the vicinity of monitoring wells M036-A, M037-A, M038-A, and M039-A in the central portion of the site. A separate area of elevated aromatic hydrocarbons (also associated with petroleum hydrocarbons) is present in the vicinity of groundwater monitoring well M024-A, near the western shoreline at the northwest corner of IR Site 2 (Figure 4-3). The two wells with low concentrations of certain chlorinated organic compounds (442-MW1 and M011-A) are in

locations where petroleum hydrocarbons were detected in the previous year's sampling events (Summer 2004 to Spring 2005).

Although six metals had concentrations exceeding MCLs at one or more wells in the current sampling year, many of the exceedances are not believed to represent metals contamination, based on inconsistent results that have mostly been below MCLs (Table 4-6). Only arsenic (at eight wells), barium (three wells), and antimony (one well) have consistently exceeded MCLs in one or more wells, and appear to represent metals contamination. Of these exceedances, some are isolated; only arsenic at shoreline-area wells (M018-E, M019-E, M020-E, M021-E, M023-E and M024-E) and barium at M037-E and M038-E represent clusters of contamination that may represent small plumes. The arsenic occurrences appear to be limited to intermediate depths ("E" wells); similar to IR Sites 1 and 32, chemical conditions are reducing, based on high concentrations of iron (5,000 to 45,000 µg/L) and manganese, as well as low ORP readings (Table 4-10).

Soil gas results for landfill gas monitoring points showed relatively high concentrations (commonly above 100 ppbv to over 1,000 ppbv) of some of the same organic constituents found in groundwater (benzene, chlorobenzene, naphthalene); these and other aromatic compounds have been consistently detected in soil gas through time. Chlorinated straight-chain (non-aromatic) VOCs have been detected at much lower concentrations (generally less than 10 ppbv), and at fewer soil-gas locations than the aromatics. The most frequently-detected of these are PCE, TCE, cis-1,2-DCE, and vinyl chloride, detected primarily at MG2-02-M, MG2-03-M, MG2-03-S, MG2-05-D and MG2-05-S. The PCE detections at MG2-03S have been reported consistently from one sampling event to the next. Figure 4-4 displays several of the VOCs detected in soil gas in the Spring 2006 sampling event.

4.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 4-13. Table 4-13 lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 4-13 also lists the historical maximum

concentration (Summer 2002 through Spring 2005) for each analyte. In general, concentrations of analytes detected during the Summer 2005 through Spring 2006 sampling year were similar to those found in previous sampling years.

Differences with respect to MCLs are (referring to the FWBZ except where noted):

- Bis(2-ethylhexyl)phthalate (in SWBZ only), antimony (SWBZ only), cadmium, aluminum, and total PCBs exceeded MCLs in historical samples but were less than MCLs for the current sampling year.
- Benzo(a)pyrene (SWBZ only), and thallium (SWBZ only) aroclor-1242, total PCBs, and radium-228 exceeded MCLs during the current sampling year, but had not previously exceeded MCLs.

4.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2006 Annual Report:

- Figure 4-5a, "Trends in Groundwater Elevations at IR Site 2: East-West Oriented FWBZ Wells."
- Figure 4-5b, "Trends in Groundwater Elevations at IR Site 2: Clustered Wells Within Zone of Tidal Influence on West Shoreline Perimeter."
- Figure 4-5c, "Trends in Groundwater Elevations at IR Site 2: Clustered Wells Within Zone of Tidal Influence on South Shoreline Perimeter."
- Figure 4-5d, "Trends in Groundwater Elevations at IR Site 2: Clustered Wells Outside Zone of Tidal Influence – Within Benzene Plume."
- Figure 4-5e, "Trends in Groundwater Elevations at IR Site 2: Clustered Wells Outside Zone of Tidal Influence – Upgradient of Plume."

The following observations can be made from viewing the hydrographs:

1. Groundwater elevations for wells at IR Site 2 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in winter and spring and seasonal lows in late summer and fall. The similarity in well behavior, even for widely spaced monitoring wells, is apparent on Figure 4-5a. The seasonal pattern appears to be less pronounced in wells closer to the shoreline than in those farther inland.

2. Hydrographs for clustered wells located along the shoreline and within the zone of tidal influence, as shown on Figures 4-5b and 4-5c, indicate occasional reversals in the vertical gradient between co-located FWBZ and SWBZ wells; i.e., groundwater elevations for the FWBZ wells are sometimes higher, and at other times lower, than the corresponding SWBZ wells. This reversal in vertical gradient may be due to tidal

fluctuations in the FWBZ wells, but additional information is required to determine if this is the case.

3. Hydrographs for clustered wells farther from the shoreline and presumably outside the zone of tidal influence, as shown on Figures 4-5d and 4-5e, consistently indicate a downward vertical gradient between co-located FWBZ and SWBZ wells; i.e., groundwater elevations for the FWBZ wells are generally higher than the corresponding SWBZ wells. In addition, seasonal patterns that are apparent site-wide in the FWBZ wells are closely mirrored in the SWBZ wells away from shore. Reversals in vertical gradient are still seen in some locations, especially between the SWBZ wells and co-located "E" designated wells screened in the lower portion of the FWBZ. A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is missing.

4. Upgradient wells show a very consistent seasonal pattern in both FWBZ and SWBZ wells and also show a consistent downward vertical gradient, as shown on Figure 4-5e.

5. In general, the hydrographs for IR Site 2 wells outside tidal influence indicate a slight overall increase in groundwater elevations over time, i.e. peak seasonal elevations for most wells have shown a tendency to increase from 2002 to 2006.

4.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of diesel-range TPH, aromatic hydrocarbons (mainly BTEX and naphthalene) and associated chlorinated aromatic hydrocarbons (chlorobenzene, 1,4-DCBZ) have been consistently detected in groundwater at IR Site 2 since monitoring was initiated in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figure 4-6.

Concentrations of various organochlorine pesticides (dieldrin, chlordane, endosulfan, endrin, benzene hexachloride [BHC] and heptachlor) have been frequently detected in groundwater at certain IR Site 2 wells since monitoring for pesticides was initiated in Spring 2004. Trends in groundwater concentrations of selected constituents over time are shown on Figure 4-7.

Groundwater concentrations of organic constituents at IR Site 2 tend to show fluctuations over time, but for aromatic hydrocarbons there does not appear to be a consistent pattern or overall direction to the changes noted. However, organochlorine pesticides appear to have declined since 2004 and early 2005 (Figure 4-7).

Although groundwater concentrations of organic constituents at IR Site 2 tend to show considerable fluctuations over time, there does not appear to be a consistent pattern or overall direction to the changes noted. Concentrations of aromatic hydrocarbons above MCLs and low but detectable concentrations of organochlorine pesticides are persistent over time and are consistently detected in areas of TPH-impacted groundwater, especially where concentrations of diesel-range hydrocarbons are relatively high.

4.4.6 Trends in Radionuclides

In the Spring 2004 Annual Report, Shaw presented an evaluation of the previously collected radiological data entitled *Evaluation of Eight Rounds of Alameda NAS Radiological Groundwater Analyses Obtained from June 2002 through April 2004* (Shaw, 2004). The evaluation was presented in a Memorandum included as Appendix D in the Spring 2004 Annual Report. In the Memorandum, Shaw concluded that no gross alpha anomalies were present in any of the samples collected during the first eight rounds of sampling for radiological analysis at Sites 1 and 2 (Shaw, 2004). In general, the previous and current year's sampling results tend to support that conclusion, since gross alpha concentrations above the MCL are uncommon and do not appear consistently in any one well at Sites 1 and 2.

Gross beta activity at Site 2 was recorded for almost every well at the site in both the FWBZ and SWBZ, and concentrations above the MCL were common in both the Summer 2005 to Spring 2006 groundwater samples as well as in previous sampling events. Shaw concluded in the Spring 2004 Annual Report that there is a strong positive correlation between total potassium concentrations and gross beta activity at both Sites 1 and 2. This suggests that naturally-occurring potassium-40 may be a significant contributor to gross beta activity observed in the groundwater (Shaw, 2004). The current sampling year's data tends to support this interpretation: Potassium was very low (about 10 mg/L) in wells that had no exceedances of the MCL for gross beta (wells 442-MW1, M012-A, M-013A, and M014-A), but was considerably higher (100 to 1,000 mg/L) in wells with MCL exceedances for gross beta.

Six wells at Site 2 have consistently shown radium 226 and 228 concentrations slightly above the MCL (5 pCi/L for the sum of isotopes) in most sampling events: M020-E, M021-E, M022-E, M023-E, M037-E, and M038-E (Table 4-9). All of these wells are screened in the lower portion

of the FWBZ. This pattern continued during the current sampling year, with no apparent upward or downward trend with time.

Well M016-E, located at the southeast corner of the site, has consistently shown detections of tritium since the initiation of radionuclide analysis as part of the Basewide Groundwater Monitoring Program. The maximum level was reported at 3,810 pCi/L in Spring 2004. Tritium concentrations in the current sampling year remain relatively high (greater than 3,000 pCi/L). Nevertheless, these concentrations remain well below the MCL of 20,000 pCi/L for tritium.

Based on an evaluation of the U-234/U-238 ratios at the site, Shaw concluded in the Spring 2004 Annual Report that the source of the detected uranium isotopes at Sites 1 and 2 is natural rather than due to depleted or enriched materials. The current sampling year's data at Site 2 tends to support this interpretation.

4.5 CONCLUSIONS AND RECOMMENDATIONS

Groundwater samples from IR Site 2 contain a variety of analytes exceeding MCLs, including aromatic and chlorinated VOCs, SVOCs, metals, organochlorine pesticides, and radionuclides. The highest concentrations of VOCs are generally found in the central part of the site with high concentrations of TPH as diesel, jet fuel or motor oil, as well as pesticides. A separate area of aromatic hydrocarbons is present near the northwest corner of the site, and separate areas of chlorinated hydrocarbons are found near the northern site boundary. Temporal trends are not pronounced, and contaminant plumes appear relatively stable.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 4-1
Groundwater Monitoring Summary, IR Site 2 - Summer 2005 and Spring 2006

				Organic Compounds							Inorganic Compounds	Natural Attenuation Parameters				Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	FiQed Gases (ASTM D1946)
Groundwater Monitoring Program Wells																									
First	442-MW1	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
	M010-A	Fill	5.5 - 15.5			X																			
	M011-A	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
	M012-A	Fill	5 - 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	M013-A	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
	M014-A	Fill	4.5 - 14.5	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
	M016-A	Fill	4 - 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	X	X	X	---	---		
	M016-E	Fill	14 - 24	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M017-A	Fill	4 - 14	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
	M018-A	Fill	4 - 14	X	X	X	X	X	X	X	X					X	X	---	X	X	X	---	---		
	M018-E	BSU	36 - 46	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M019-A	Fill	5 - 15	X	X	X	X	X	X	X	X					X	X	---	X	X	X	---	---		
	M019-E	BSU	30.5 - 40.5	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M020-A	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X					X	X	---	X	X	X	---	---		
	M020-E	Fill	27.5 - 34.5	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M021-A	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X					X	X	---	X	X	X	---	---		
	M021-E	Fill-BSU	30 - 37	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M022-A	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X					X	X	---	X	X	X	---	---		
	M022-E	Fill	27.25 - 37.5	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M023-A	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X					X	X	---	X	X	X	---	---		
	M023-E	Fill	25 - 35	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M024-A	Fill	4 - 14	X	X	X	X	X	X	X	X					X	X	---	X	X	X	---	---		
	M024-E	Fill	22 - 32	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X		
	M036-A	Fill	5 - 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	X	X	X	---	---		
	M036-E	Fill	20 - 30	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M037-A	Fill	8 - 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	X	X	X	---	---		
	M037-E	Fill	15.5 - 25.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	M038-A	Fill	5 - 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	---	X	X	X	---	---		
	M038-E	Fill	15 - 25	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M039-A	Fill	5 - 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Second	M010-B	BSU	35.5 - 43.25	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M012-B	Merritt-USA	63.5 - 73.5	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M013-C	Merritt	69 - 79	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M014-B	Merritt	49.5 - 59.5	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M016-B	Merritt	45.5 - 55.5	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		

Table 4-1
Groundwater Monitoring Summary, IR Site 2 - Summer 2005 and Spring 2006

				Organic Compounds							Inorganic Compounds	Natural Attenuation Parameters				Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	FiQed Gases (ASTM D1946)
Second	M020-B	BSU	55 - 65	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M021-C	BSU-USA-YBM	82 - 92	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M023-B	BSU	83 - 93	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M023-C	BSU-YBM	99.5 - 109.5	X	X	X	X	X			X					X	X	X	X	X	X	X	X		
	M036-B	BSU	90 - 100	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M037-B	BSU-Merritt	77 - 87	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M038-B	BSU	70 - 80	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
	M039-B	Merritt	52 - 62	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X		
Vadose	MG2-01-S	Landfill	0.5 - 1.8																					X	X
	MG2-01-D	Landfill	2.5 - 4																					X	X
	MG2-02-S	Landfill	2 - 3																					X	X
	MG2-02-M	Landfill	4.5 - 6																					X	X
	MG2-02-D	Landfill	7 - 9																					X	X
	MG2-03-S	Landfill	0.5 - 2																					X	X
	MG2-03-M	Landfill	2.5 - 3.5																					X	X
	MG2-03-D	Landfill	4.5 - 6																					X	X
	MG2-04-S	Landfill	1.8 - 2.3																					X	X
	MG2-04-M	Landfill	3.8 - 5.3																					X	X
	MG2-04-D	Landfill	6.3 - 7.8																					X	X
	MG2-05-S	Landfill	1 - 2.5																					X	X
	MG2-05-D	Landfill	3.5 - 5																					X	X
Non-Program Wells, Water Level Only																									
First	M009-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M015-A	Fill	4.5 - 14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M103-A	Fill	5.5 - 15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M104-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M105-A	Fill	5.5 - 15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M106-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M107-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M108-A	Fill	6 - 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M109-A	Fill	6 - 16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Second	M103-B	Fill	31.5 - 37.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M104-B	Fill		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M105-B	Fill	58.5 - 68.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M108-B	Fill	47.5 - 57.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 4-1
Groundwater Monitoring Summary, IR Site 2 - Summer 2005 and Spring 2006

				Organic Compounds							Inorganic Compounds	Natural Attenuation Parameters				Radionuclides								Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	TDS (EPA Method 160.1)	Gross Alpha (EPA 9310/900.0)	Gross Beta (EPA 9310/900.0)	Gamma Emitting Radionuclides (EPA Method 901.1)	Radium (EPA 9315/903.0)	Tritium Isotopes (EPA Method 906.0)	Radium-228 Isotopes (EPA Method 904.0)	Radioactive Strontium (EPA Method 905.0)	Uranium isotopes (EPA Method 908 Modified)	VOCs (TO15)	FiQed Gases (ASTM D1946)
Second	DRA-01	Fill	35 - 45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event
Well sampled for this parameter at the Spring 2006 sampling event
Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

--- Analytical parameter temporarily suspended for Summer 2005 and Spring 2006 sampling events.
\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compound
PCBs - Polychlorinated Biphenyls

GER - Gamma Emitting Radionuclides
(8260B) - U.S. Environmental Protection Agency analytical method
TDS - Total Dissolved Solids
ASTM - American Society for Testing and Materials

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	442-MW1	8.0	7.83 *	04/12/06	0.28	7.55
		8.0	7.83 *	08/22/05	3.20	4.63
		8.0	7.83 *	03/01/05	0.65	7.18
		8.0	7.83 *	11/10/04	2.11	5.72
		8.0	7.83 *	06/14/04	3.17	4.66
		8.0	7.83 *	03/02/04	0.65	7.18
		8.0	7.83 *	12/03/03	2.49	5.34
		8.0	7.83 *	09/15/03	3.53	4.30
		8.0	7.83 *	06/24/03	3.02	4.81
		8.0	7.83 *	04/08/03	1.96	5.87
		8.0	7.83 *	12/09/02	2.83	5.00
		8.0	7.83 *	09/13/02	5.77	2.06
		8.0	7.83 *	07/10/02	3.53	4.30
First	DRA-01	NW	10.91	04/12/06	4.92	5.99
First	M009-A ‡	7.7	7.15	04/12/06	NS	NC
		7.7	7.15	08/22/05	0.70	6.45
		7.7	7.15	03/01/05	0.00 †	7.15
		7.7	7.15	11/10/04	2.81	4.34
		7.7	7.15	06/14/04	0.80	6.35
		7.7	7.15	03/02/04	0.00 †	7.15
		7.7	7.15	12/03/03	0.74	6.41
		7.7	7.15	09/15/03	1.50	5.65
		7.7	7.15	06/24/03	0.84	6.31
		7.7	7.15	04/08/03	0.40	6.75
First	M010-A	8.3	7.90	04/12/06	NS	NC
		8.3	7.90	08/22/05	3.20	4.70
		8.3	7.90	03/01/05	0.30	7.60
		8.3	7.90	11/10/04	2.56	5.34
		8.3	7.90	06/14/04	2.80	5.10
		8.3	7.90	03/02/04	0.20	7.70
First	M011-A	9.5	8.76 *	04/12/06	1.42	7.34
		9.5	8.76 *	08/22/05	3.95	4.81
		9.5	8.76 *	03/01/05	1.91	6.85
		9.5	8.76 *	11/10/04	3.12	5.64
		9.5	8.76 *	06/14/04	4.10	4.66
		9.5	8.76 *	03/02/04	1.84	6.92
		9.5	8.76 *	12/03/03	3.08	5.68
		9.5	8.76 *	09/15/03	4.56	4.20
		9.5	8.76 *	06/24/03	4.17	4.59
		9.5	8.76 *	04/08/03	3.34	5.42
		9.5	8.76 *	12/09/02	3.59	5.17
		9.5	8.76 *	09/13/02	4.63	4.13
		9.5	8.76 *	07/01/02	4.25	4.51
First	M012-A	11.1	10.77 *	04/12/06	1.17	9.6
		11.1	10.77 *	08/22/05	5.4	5.37
		11.1	10.77 *	03/01/05	2.06	8.71
		11.1	10.77 *	11/10/04	4.70	6.07
		11.1	10.77 *	06/14/04	4.80	5.97
		11.1	10.77 *	03/02/04	1.90	8.87
		11.1	10.77 *	12/03/03	5.21	5.56
		11.1	10.77 *	09/15/03	5.70	5.07
		11.1	10.77 *	06/24/03	4.20	10.77

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M012-A	11.1	10.77 *	04/08/03	3.43	7.34
		11.1	10.77 *	12/09/02	5.10	5.67
		11.1	10.77 *	09/13/02	5.67	5.10
		11.1	10.77 *	07/01/02	5.04	5.73
First	M013-A	10.8	10.35 *	04/12/06	0.22	10.13
		10.8	10.35 *	08/22/05	4.00	6.35
		10.8	10.35 *	03/01/05	1.16	9.19
		10.8	10.35 *	11/10/04	3.70	6.65
		10.8	10.35 *	06/14/04	3.60	6.75
		10.8	10.35 *	03/02/04	1.08	9.27
		10.8	10.35 *	12/03/03	4.14	6.21
		10.8	10.35 *	09/15/03	4.45	5.90
		10.8	10.35 *	06/24/03	3.60	6.75
		10.8	10.35 *	04/08/03	2.43	7.92
		10.8	10.35 *	12/09/02	4.43	5.92
		10.8	10.35 *	09/13/02	4.79	5.56
		10.8	10.35 *	07/02/02	4.94	5.41
First	M014-A	10.9	10.17 *	04/12/06	0	10.17
		10.9	10.17 *	08/22/05	4.23	5.94
		10.9	10.17 *	03/01/05	0.87	9.30
		10.9	10.17 *	11/10/04	3.75	6.42
		10.9	10.17 *	06/14/04	4.03	6.14
		10.9	10.17 *	03/02/04	1.15	9.02
		10.9	10.17 *	12/03/03	4.19	5.98
		10.9	10.17 *	09/15/03	4.72	5.45
		10.9	10.17 *	06/24/03	4.04	6.13
		10.9	10.17 *	04/08/03	3.04	7.13
		10.9	10.17 *	12/09/02	4.48	5.69
		10.9	10.17 *	09/13/02	4.94	5.23
		10.9	10.17 *	07/02/02	4.45	5.72
First	M015-A ‡	10.9	10.38	04/17/06	3.85	6.53
		10.9	10.38	08/22/05	5.92	4.46
		10.9	10.38	03/01/05	4.05	6.33
		10.9	10.38	11/10/04	5.11	5.27
		10.9	10.38	06/14/04	5.81	4.57
		10.9	10.38	03/02/04	3.97	6.41
		10.9	10.38	12/03/03	4.37	6.01
		10.9	10.38	09/15/03	5.57	4.81
		10.9	10.38	06/24/03	8.40	1.98
		10.9	10.38	04/08/03	5.52	4.86
First	M016-A	12.3	12.26 *	04/17/06	8.04	4.22
		12.3	12.26 *	08/22/05	9.10	3.16
		12.3	12.26 *	03/01/05	8.19	4.07
		12.3	12.26 *	11/10/04	7.72	4.54
		12.3	12.26 *	06/14/04	8.80	3.46
		12.3	12.26 *	03/02/04	8.01	4.25
		12.3	12.26 *	12/03/03	8.41	3.85
		12.3	12.26 *	09/15/03	8.44	3.82
		12.3	12.26 *	06/24/03	8.93	3.33
		12.3	12.26 *	04/08/03	8.99	3.27
		12.3	12.26 *	12/09/02	8.00	4.26
		12.3	12.26 *	09/13/02	8.59	3.67
		12.3	12.26 *	07/02/02	9.43	2.83

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M016-E	12.3	12.46 *	04/17/06	8.34	4.12
		12.3	12.46 *	08/22/05	9.40	3.06
		12.3	12.46 *	03/01/05	9.55	2.91
		12.3	12.46 *	11/10/04	7.78	4.68
		12.3	12.46 *	06/14/04	8.97	3.49
		12.3	12.46 *	03/02/04	8.29	4.17
		12.3	12.46 *	12/03/03	8.52	3.94
		12.3	12.46 *	09/15/03	8.54	3.92
		12.3	12.46 *	06/24/03	9.14	3.32
		12.3	12.46 *	04/08/03	9.22	3.24
		12.3	12.46 *	12/09/02	8.00	4.46
		12.3	12.46 *	09/13/02	8.71	3.75
		12.3	12.46 *	07/02/02	9.54	2.92
First	M017-A	12.3	12.37 *	04/17/06	9.31	3.06
		12.3	12.37 *	08/22/05	10.35	2.02
		12.3	12.37 *	03/01/05	9.24	3.13
		12.3	12.37 *	11/10/04	7.69	4.68
		12.3	12.37 *	06/14/04	9.10	3.27
		12.3	12.37 *	03/02/04	8.77	3.60
		12.3	12.37 *	12/03/03	8.35	4.02
		12.3	12.37 *	09/15/03	8.75	3.62
		12.3	12.37 *	06/24/03	9.34	3.03
		12.3	12.37 *	04/08/03	9.75	2.62
		12.3	12.37 *	12/09/02	7.98	4.39
		12.3	12.37 *	09/13/02	8.84	3.53
		12.3	12.37 *	07/08/02	10.47	1.90
First	M018-A	11.1	10.97 *	04/17/06	8.05	2.92
		11.1	10.97 *	08/22/05	8.63	2.34
		11.1	10.97 *	03/01/05	7.58	3.39
		11.1	10.97 *	11/10/04	7.41	3.56
		11.1	10.97 *	06/14/04	NM	NC
		11.1	10.97 *	03/02/04	7.18	3.79
		11.1	10.97 *	12/03/03	6.76	4.21
		11.1	10.97 *	09/15/03	7.18	3.79
		11.1	10.97 *	06/24/03	8.08	2.89
		11.1	10.97 *	04/08/03	8.33	2.64
		11.1	10.97 *	12/09/02	6.41	4.56
		11.1	10.97 *	09/13/02	8.42	2.55
		11.1	10.97 *	07/08/02	7.86	3.11
First	M018-E	11.0	10.98 *	04/17/06	8.68	2.30
		11.0	10.98 *	08/22/05	8.63	2.35
		11.0	10.98 *	03/01/05	8.16	2.82
		11.0	10.98 *	11/10/04	5.05	5.93
		11.0	10.98 *	06/14/04	NM	NC
		11.0	10.98 *	03/02/04	7.40	3.58
		11.0	10.98 *	12/03/03	6.68	4.30
		11.0	10.98 *	09/15/03	6.95	4.03
		11.0	10.98 *	06/24/03	7.95	3.03
		11.0	10.98 *	04/08/03	8.60	2.38
		11.0	10.98 *	12/09/02	5.89	5.09
		11.0	10.98 *	09/13/02	7.36	3.62
		11.0	10.98 *	07/08/02	7.44	3.54

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M019-A	11.6	11.25 *	04/17/06	8.51	2.74
		11.6	11.25 *	08/22/05	9.15	2.10
		11.6	11.25 *	03/01/05	8.26	2.99
		11.6	11.25 *	11/10/04	7.72	3.53
		11.6	11.25 *	06/14/04	8.20	3.05
		11.6	11.25 *	07/08/02	9.25	2.00
		11.6	11.25 *	03/02/04	7.42	3.83
		11.6	11.25 *	12/03/03	7.19	4.06
		11.6	11.25 *	09/15/03	7.73	3.52
		11.6	11.25 *	06/24/03	8.16	3.09
		11.6	11.25 *	04/08/03	8.93	2.32
		11.6	11.25 *	12/09/02	7.09	4.16
		11.6	11.25 *	09/13/02	7.56	3.69
First	M019-E	11.2	11.15 *	04/17/06	10.41	0.74
		11.2	11.15 *	08/22/05	10.75	0.40
		11.2	11.15 *	03/01/05	9.50	1.65
		11.2	11.15 *	11/10/04	4.41	6.74
		11.2	11.15 *	06/14/04	7.71	3.44
		11.2	11.15 *	03/02/04	7.95	3.20
		11.2	11.15 *	12/03/03	6.21	4.94
		11.2	11.15 *	09/15/03	6.90	4.25
		11.2	11.15 *	06/24/03	7.50	3.65
		11.2	11.15 *	04/08/03	9.98	1.17
		11.2	11.15 *	12/09/02	5.69	5.46
		11.2	11.15 *	09/13/02	7.59	3.56
		11.2	11.15 *	07/09/02	6.46	4.69
First	M020-A	10.6	10.63 *	04/17/06	5.62	5.01
		10.6	10.63 *	08/22/05	6.43	4.20
		10.6	10.63 *	03/01/05	5.94	4.69
		10.6	10.63 *	11/10/04	6.40	4.23
		10.6	10.63 *	06/14/04	6.89	3.74
		10.6	10.63 *	03/02/04	5.90	4.73
		10.6	10.63 *	12/03/03	6.48	4.15
		10.6	10.63 *	09/15/03	6.85	3.78
		10.6	10.63 *	06/24/03	7.10	3.53
		10.6	10.63 *	04/08/03	7.11	3.52
		10.6	10.63 *	12/09/02	6.15	4.48
		10.6	10.63 *	09/13/02	6.72	3.91
		10.6	10.63 *	07/08/02	7.25	3.38
First	M020-E	10.7	10.42 *	04/17/06	9.44	0.98
		10.7	10.42 *	08/22/05	10.00	0.42
		10.7	10.42 *	03/01/05	8.51	1.91
		10.7	10.42 *	11/10/04	4.11	6.31
		10.7	10.42 *	06/14/04	6.97	3.45
		10.7	10.42 *	03/02/04	6.80	3.62
		10.7	10.42 *	12/03/03	5.63	4.79
		10.7	10.42 *	09/15/03	6.55	3.87
		10.7	10.42 *	06/24/03	6.89	3.53
		10.7	10.42 *	04/08/03	8.90	1.52
		10.7	10.42 *	12/09/02	5.06	5.36
		10.7	10.42 *	09/13/02	7.04	3.38
		10.7	10.42 *	07/10/02	6.31	4.11

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M021-A	8.5	8.75 *	04/17/06	3.73	5.02
		8.5	8.75 *	08/22/05	4.44	4.31
		8.5	8.75 *	03/01/05	3.82	4.93
		8.5	8.75 *	11/10/04	4.08	4.67
		8.5	8.75 *	06/14/04	4.86	3.89
		8.5	8.75 *	03/02/04	3.84	4.91
		8.5	8.75 *	12/03/03	4.16	4.59
		8.5	8.75 *	09/15/03	4.75	4.00
		8.5	8.75 *	06/24/03	4.85	3.90
		8.5	8.75 *	04/08/03	5.20	3.55
		8.5	8.75 *	12/09/02	4.02	4.73
		8.5	8.75 *	09/13/02	4.68	4.07
First	M021-E	8.8	8.91 *	04/17/06	7.51	1.40
		8.8	8.91 *	08/22/05	7.92	0.99
		8.8	8.91 *	03/01/05	6.69	2.22
		8.8	8.91 *	11/10/04	3.26	5.65
		8.8	8.91 *	06/14/04	4.91	4.00
		8.8	8.91 *	03/02/04	5.06	3.85
		8.8	8.91 *	12/03/03	3.43	5.48
		8.8	8.91 *	09/15/03	4.90	4.01
		8.8	8.91 *	06/24/03	4.99	3.92
		8.8	8.91 *	04/08/03	8.03	0.88
		8.8	8.91 *	12/09/02	3.45	5.46
		8.8	8.91 *	09/13/02	5.61	3.30
		8.8	8.91 *	07/10/02	5.19	3.72
First	M022-A	7.8	7.56 *	04/17/06	5.7	1.86
		7.8	7.56 *	08/22/05	6.70	0.86
		7.8	7.56 *	03/01/05	5.81	1.75
		7.8	7.56 *	11/10/04	0.91	6.65
		7.8	7.56 *	06/14/04	4.48	3.08
		7.8	7.56 *	03/02/04	2.52	5.04
		7.8	7.56 *	12/03/03	1.89	5.67
		7.8	7.56 *	09/16/03	1.97	5.59
		7.8	7.56 *	06/24/03	3.75	3.81
		7.8	7.56 *	04/08/03	7.11	0.45
		7.8	7.56 *	01/08/03	3.51 §	4.05
		7.8	7.56 *	09/13/02	4.41	3.15
		7.8	7.56 *	07/08/02	3.43	4.13
First	M022-E	7.6	7.32 *	04/17/06	6.42	0.90
		7.6	7.32 *	08/22/05	7.05	0.27
		7.6	7.32 *	03/01/05	5.83	1.49
		7.6	7.32 *	11/10/04	0.65	6.67
		7.6	7.32 *	06/14/04	3.38	3.94
		7.6	7.32 *	03/02/04	3.31	4.01
		7.6	7.32 *	12/03/03	1.60	5.72
		7.6	7.32 *	09/15/03	3.92	3.40
		7.6	7.32 *	06/24/03	3.30	4.02
		7.6	7.32 *	04/08/03	7.01	0.31
		7.6	7.32 *	01/07/03	3.25 §	4.07
		7.6	7.32 *	09/13/02	4.25	3.07
		7.6	7.32 *	07/12/02	6.42	0.90

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M023-A	8.6	8.07 *	04/17/06	3.46	4.61
		8.6	8.07 *	08/22/05	3.70	4.37
		8.6	8.07 *	03/01/05	3.78	4.29
		8.6	8.07 *	11/10/04	2.65	5.42
		8.6	8.07 *	06/14/04	4.36	3.71
		8.6	8.07 *	03/02/04	2.83	5.24
		8.6	8.07 *	12/03/03	3.48	4.59
		8.6	8.07 *	09/15/03	4.40	3.67
		8.6	8.07 *	06/24/03	4.60	3.47
		8.6	8.07 *	04/08/03	5.86	2.21
		8.6	8.07 *	12/09/02	3.47	4.60
		8.6	8.07 *	09/13/02	4.51	3.56
		8.6	8.07 *	07/09/02	4.35	3.72
First	M023-E	8.3	7.79 *	04/17/06	6.30	1.49
		8.3	7.79 *	08/22/05	6.73	1.06
		8.3	7.79 *	03/01/05	5.57	2.22
		8.3	7.79 *	11/10/04	1.62	6.17
		8.3	7.79 *	06/14/04	4.07	3.72
		8.3	7.79 *	03/02/04	3.00	4.79
		8.3	7.79 *	12/03/03	3.18	4.61
		8.3	7.79 *	09/15/03	4.50	3.29
		8.3	7.79 *	06/24/03	4.20	3.59
		8.3	7.79 *	04/08/03	7.04	0.75
		8.3	7.79 *	12/09/02	2.45	5.34
		8.3	7.79 *	09/13/02	4.78	3.01
		8.3	7.79 *	07/12/02	7.46	0.33
First	M024-A	10.7	10.22 *	04/17/06	4.11	6.11
		10.7	10.22 *	08/22/05	7.25	2.97
		10.7	10.22 *	03/01/05	4.42	5.80
		10.7	10.22 *	11/10/04	4.35	5.87
		10.7	10.22 *	06/14/04	6.13	4.09
		10.7	10.22 *	03/02/04	4.11	6.11
		10.7	10.22 *	12/03/03	5.90	4.32
		10.7	10.22 *	09/15/03	6.33	3.89
		10.7	10.22 *	06/24/03	6.20	4.02
		10.7	10.22 *	04/08/03	6.08	4.14
		10.7	10.22 *	12/09/02	5.75	4.47
		10.7	10.22 *	09/13/02	6.66	3.56
		10.7	10.22 *	07/08/02	6.35	3.87
First	M024-E	10.2	9.83 *	04/17/06	6.04	3.79
		10.2	9.83 *	08/22/05	6.35	3.48
		10.2	9.83 *	03/01/05	5.76	4.07
		10.2	9.83 *	11/10/04	5.63	4.20
		10.2	9.83 *	06/14/04	5.72	4.11
		10.2	9.83 *	03/02/04	3.89	5.94
		10.2	9.83 *	12/03/03	5.21	4.62
		10.2	9.83 *	09/15/03	7.20	2.63
		10.2	9.83 *	06/24/03	5.77	4.06
		10.2	9.83 *	04/08/03	7.04	2.79
		10.2	9.83 *	12/09/02	5.13	4.70
		10.2	9.83 *	09/13/02	6.60	3.23
		10.2	9.83 *	07/08/02	6.17	3.66

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M036-A	7.3	7.06 *	04/12/06	0.77	6.29
		7.3	7.06 *	08/22/05	2.70	4.36
		7.3	7.06 *	03/01/05	0.90	6.16
		7.3	7.06 *	11/10/04	2.38	4.68
		7.3	7.06 *	06/14/04	2.54	4.52
		7.3	7.06 *	03/02/04	2.70	4.36
		7.3	7.06 *	12/03/03	2.74	4.32
		7.3	7.06 *	09/15/03	2.91	4.15
		7.3	7.06 *	06/24/03	2.71	4.35
		7.3	7.06 *	04/08/03	2.26	4.80
		7.3	7.06 *	12/10/02	2.69	4.37
		7.3	7.06 *	09/13/02	3.20	3.86
		7.3	7.06 *	07/09/02	2.89	4.17
First	M036-E	7.1	6.93 *	04/12/06	1.75	5.18
		7.1	6.93 *	08/22/05	3.30	3.63
		7.1	6.93 *	03/01/05	2.47	4.46
		7.1	6.93 *	11/10/04	2.83	4.10
		7.1	6.93 *	06/14/04	3.46	3.47
		7.1	6.93 *	03/02/04	0.80	6.13
		7.1	6.93 *	12/03/03	3.26	3.67
		7.1	6.93 *	09/15/03	3.66	3.27
		7.1	6.93 *	06/24/03	3.67	3.26
		7.1	6.93 *	04/08/03	3.80	3.13
		7.1	6.93 *	12/10/02	3.57	3.36
		7.1	6.93 *	09/13/02	3.77	3.16
		7.1	6.93 *	07/09/02	3.88	3.05
First	M037-A	10.9	10.80 *	04/12/06	3.30	7.50
		10.9	10.80 *	08/22/05	5.40	5.40
		10.9	10.80 *	03/01/05	5.31	5.49
		10.9	10.80 *	11/10/04	4.73	6.07
		10.9	10.80 *	06/14/04	4.95	5.85
		10.9	10.80 *	03/02/04	3.85	6.95
		10.9	10.80 *	12/03/03	5.50	5.30
		10.9	10.80 *	09/15/03	5.58	5.22
		10.9	10.80 *	06/24/03	5.11	5.69
		10.9	10.80 *	04/08/03	4.52	6.28
		10.9	10.80 *	12/10/02	5.29	5.51
		10.9	10.80 *	09/13/02	5.64	5.16
		10.9	10.80 *	07/09/02	5.11	5.69
First	M037-E	10.9	10.69 *	04/12/06	5.27	5.42
		10.9	10.69 *	08/22/05	6.25	4.44
		10.9	10.69 *	03/01/05	3.69	7.00
		10.9	10.69 *	11/10/04	6.76	3.93
		10.9	10.69 *	06/14/04	5.60	5.09
		10.9	10.69 *	03/02/04	5.58	5.11
		10.9	10.69 *	12/03/03	7.52	3.17
		10.9	10.69 *	09/15/03	7.25	3.44
		10.9	10.69 *	06/24/03	7.52	3.17
		10.9	10.69 *	04/08/03	6.64	4.05
		10.9	10.69 *	12/10/02	7.00	3.69
		10.9	10.69 *	09/13/02	7.59	3.10
		10.9	10.69 *	07/09/02	7.39	3.30

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M038-A	15.1	15.09 *	04/12/06	4.07	11.02
		15.1	15.09 *	08/22/05	8.10	6.99
		15.1	15.09 *	03/01/05	4.93	10.16
		15.1	15.09 *	11/10/04	6.76	8.33
		15.1	15.09 *	06/14/04	7.36	7.73
		15.1	15.09 *	03/02/04	5.52	9.57
		15.1	15.09 *	12/03/03	8.83	6.26
		15.1	15.09 *	09/15/03	8.64	6.45
		15.1	15.09 *	06/24/03	7.75	7.34
		15.1	15.09 *	04/08/03	6.63	8.46
		15.1	15.09 *	12/10/02	8.84	6.25
		15.1	15.09 *	09/13/02	8.91	6.18
		15.1	15.09 *	07/11/02	9.28	5.81
First	M038-E	15.0	14.36 *	04/12/06	7.16	7.2
		15.0	14.36 *	08/22/05	9.55	4.81
		15.0	14.36 *	03/01/05	7.40	6.96
		15.0	14.36 *	11/10/04	6.62	7.74
		15.0	14.36 *	06/14/04	9.05	5.31
		15.0	14.36 *	03/02/04	7.53	6.83
		15.0	14.36 *	12/03/03	11.22	3.14
		15.0	14.36 *	09/15/03	9.90	4.46
		15.0	14.36 *	06/24/03	9.36	5.00
		15.0	14.36 *	04/08/03	9.05	5.31
		15.0	14.36 *	12/10/02	10.24	4.12
		15.0	14.36 *	09/13/02	9.99	4.37
		15.0	14.36 *	07/10/02	10.52	3.84
First	M039-A	16.8	16.50 *	04/12/06	7.55	8.95
		16.8	16.50 *	08/22/05	12.00	4.50
		16.8	16.50 *	03/01/05	8.46	8.04
		16.8	16.50 *	11/10/04	12.07	4.43
		16.8	16.50 *	06/14/04	11.60	4.90
		16.8	16.50 *	03/02/04	8.65	7.85
		16.8	16.50 *	12/03/03	12.60	3.90
		16.8	16.50 *	09/15/03	12.60	3.90
		16.8	16.50 *	06/24/03	11.80	4.70
		16.8	16.50 *	04/08/03	10.60	5.90
		16.8	16.50 *	12/10/02	12.54	3.96
		16.8	16.50 *	09/13/02	12.73	3.77
		16.8	16.50 *	07/10/02	12.23	4.27
First	M103-A	NA	10.51	04/12/06	0.00	10.51
First	M104-A	NA	9.76	04/12/06	0.45	9.31
First	M105-A ‡	11.4	10.81	04/12/06	0	10.81
		11.4	10.81	08/22/05	5.89	4.92
		11.4	10.81	03/01/05	0.29	10.52
		11.4	10.81	11/10/04	3.00	7.81
		11.4	10.81	06/14/04	3.40	7.41
		11.4	10.81	03/02/04	0.60	10.21
		11.4	10.81	12/03/03	3.70	7.11
		11.4	10.81	09/16/03	NM	NC
		11.4	10.81	06/24/03	3.15	7.66
		11.4	10.81	04/08/03	1.87	8.94
First	M108-A	NA	11.68	04/12/06	0	11.68
First	M109-A	NA	15.31	04/12/06	3.15	12.16

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M010-B	8.8	8.30 *	08/22/05	NM	NC
		8.8	8.30 *	08/22/05	3.10	5.20
		8.8	8.30 *	03/02/05	0.76	7.54
		8.8	8.30 *	11/10/04	2.68	5.62
		8.8	8.30 *	06/14/04	2.20	6.10
		8.8	8.30 *	03/02/04	1.70	6.60
		8.8	8.30 *	12/03/03	3.09	5.21
		8.8	8.30 *	09/15/03	3.84	4.46
		8.8	8.30 *	06/24/03	2.65	5.65
		8.8	8.30 *	04/08/03	2.52	5.78
		8.8	8.30 *	12/09/02	3.15	5.15
		8.8	8.30 *	07/11/02	4.56	3.74
Second	M012-B	10.9	10.61 *	04/12/06	1.24	9.37
		10.9	10.61 *	08/22/05	4.15	6.46
		10.9	10.61 *	03/01/05	1.73	8.88
		10.9	10.61 *	11/10/04	3.99	6.62
		10.9	10.61 *	06/14/04	4.13	6.48
		10.9	10.61 *	03/02/04	1.78	8.83
		10.9	10.61 *	12/03/03	4.92	5.69
		10.9	10.61 *	09/15/03	5.29	5.32
		10.9	10.61 *	06/24/03	4.58	6.03
		10.9	10.61 *	04/08/03	3.70	6.91
		10.9	10.61 *	12/09/02	5.62	4.99
		10.9	10.61 *	07/10/02	5.61	5.00
Second	M013-C	10.7	10.24 *	04/12/06	2.01	8.23
		10.7	10.24 *	08/22/05	5.13	5.11
		10.7	10.24 *	03/01/05	2.70	7.54
		10.7	10.24 *	11/10/04	4.89	5.35
		10.7	10.24 *	06/14/04	5.00	5.24
		10.7	10.24 *	03/02/04	2.68	7.56
		10.7	10.24 *	12/03/03	5.20	5.04
		10.7	10.24 *	09/15/03	5.52	4.72
		10.7	10.24 *	06/24/03	4.91	5.33
		10.7	10.24 *	04/08/03	4.14	6.10
		10.7	10.24 *	12/12/02	5.50 §	4.74
		10.7	10.24 *	07/10/02	5.21	5.03
Second	M014-B	10.7	10.23 *	04/12/06	2.56	7.67
		10.7	10.23 *	08/22/05	5.34	4.89
		10.7	10.23 *	03/01/05	3.15	7.08
		10.7	10.23 *	11/10/04	4.90	5.33
		10.7	10.23 *	06/14/04	5.13	5.10
		10.7	10.23 *	03/02/04	2.95	7.28
		10.7	10.23 *	12/03/03	5.13	5.10
		10.7	10.23 *	09/15/03	5.37	4.86
		10.7	10.23 *	06/24/03	5.10	5.13
		10.7	10.23 *	04/08/03	4.63	5.60
		10.7	10.23 *	12/09/02	5.31	4.92
		10.7	10.23 *	07/10/02	5.55	4.68

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M016-B	12.4	12.34 *	04/12/06	6.66	5.68
		12.4	12.34 *	08/22/05	10.25	2.09
		12.4	12.34 *	03/01/05	9.01	3.33
		12.4	12.34 *	11/10/04	6.62	5.72
		12.4	12.34 *	06/14/04	8.91	3.43
		12.4	12.34 *	03/02/04	7.95	4.39
		12.4	12.34 *	12/03/03	8.89	3.45
		12.4	12.34 *	09/15/03	7.80	4.54
		12.4	12.34 *	06/24/03	9.34	3.00
		12.4	12.34 *	04/08/03	8.96	3.38
		12.4	12.34 *	12/09/02	7.23	5.11
		12.4	12.34 *	09/13/02	8.27	4.07
		12.4	12.34 *	07/11/02	11.84	0.50
Second	M020-B	10.6	10.62 *	04/12/06	5.41	5.21
		10.6	10.62 *	08/22/05	6.50	4.12
		10.6	10.62 *	03/01/05	6.03	4.59
		10.6	10.62 *	11/10/04	5.78	4.84
		10.6	10.62 *	06/14/04	6.45	4.17
		10.6	10.62 *	03/02/04	5.73	4.89
		10.6	10.62 *	12/03/03	6.15	4.47
		10.6	10.62 *	09/15/03	6.26	4.36
		10.6	10.62 *	06/24/03	6.43	4.19
		10.6	10.62 *	04/08/03	6.78	3.84
		10.6	10.62 *	12/09/02	5.99	4.63
		10.6	10.62 *	09/13/02	6.49	4.13
		10.6	10.62 *	07/15/02	6.80	3.82
Second	M021-C	8.3	7.98 *	04/12/06	2.97	5.01
		8.3	7.98 *	08/22/05	3.76	4.22
		8.3	7.98 *	03/01/05	3.36	4.62
		8.3	7.98 *	11/10/04	3.51	4.47
		8.3	7.98 *	06/14/04	4.02	3.96
		8.3	7.98 *	03/02/04	3.13	4.85
		8.3	7.98 *	12/03/03	3.77	4.21
		8.3	7.98 *	09/15/03	3.65	4.33
		8.3	7.98 *	06/24/03	3.57	4.41
		8.3	7.98 *	04/08/03	4.92	3.06
		8.3	7.98 *	12/09/02	3.55	4.43
		8.3	7.98 *	09/13/02	3.79	4.19
		8.3	7.98 *	07/11/02	4.06	3.92
Second	M023-B	8.3	8.42 *	04/12/06	3.47	4.95
		8.3	8.42 *	08/22/05	4.15	4.27
		8.3	8.42 *	03/01/05	4.01	4.41
		8.3	8.42 *	11/10/04	3.52	4.90
		8.3	8.42 *	06/14/04	3.89	4.53
		8.3	8.42 *	03/02/04	3.52	4.90
		8.3	8.42 *	12/03/03	3.87	4.55
		8.3	8.42 *	09/15/03	4.02	4.40
		8.3	8.42 *	06/24/03	3.85	4.57
		8.3	8.42 *	04/08/03	4.65	3.77
		8.3	8.42 *	12/09/02	3.75	4.67
		8.3	8.42 *	09/13/02	4.23	4.19
		8.3	8.42 *	07/15/02	4.57	3.85

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M023-C	8.3	7.96 *	04/12/06	2.72	5.24
		8.3	7.96 *	08/22/05	3.65	4.31
		8.3	7.96 *	03/01/05	3.44	4.52
		8.3	7.96 *	11/10/04	2.72	5.24
		8.3	7.96 *	06/14/04	3.07	4.89
		8.3	7.96 *	03/02/04	2.71	5.25
		8.3	7.96 *	12/03/03	3.44	4.52
		8.3	7.96 *	09/15/03	3.52	4.44
		8.3	7.96 *	06/24/03	3.30	4.66
		8.3	7.96 *	04/08/03	4.10	3.86
		8.3	7.96 *	12/09/02	3.41	4.55
		8.3	7.96 *	09/13/02	3.77	4.19
		8.3	7.96 *	07/16/02	4.70	3.26
Second	M036-B	7.2	7.10 *	04/12/06	2.52	4.58
		7.2	7.10 *	08/22/05	3.10	4.00
		7.2	7.10 *	03/01/05	2.62	4.48
		7.2	7.10 *	11/10/04	2.83	4.27
		7.2	7.10 *	06/14/04	2.80	4.30
		7.2	7.10 *	03/02/04	3.89	3.21
		7.2	7.10 *	12/03/03	3.14	3.96
		7.2	7.10 *	09/15/03	4.28	2.82
		7.2	7.10 *	06/24/03	2.77	4.33
		7.2	7.10 *	04/08/03	2.98	4.12
		7.2	7.10 *	12/10/02	3.05	4.05
		7.2	7.10 *	09/13/02	3.29	3.81
		7.2	7.10 *	07/09/02	3.10	4.00
Second	M037-B	10.8	10.67 *	04/12/06	4.08	6.59
		10.8	10.67 *	08/22/05	5.70	4.97
		10.8	10.67 *	03/01/05	4.34	6.33
		10.8	10.67 *	11/10/04	5.53	5.14
		10.8	10.67 *	06/14/04	6.93	3.74
		10.8	10.67 *	03/02/04	7.50	3.17
		10.8	10.67 *	12/03/03	5.80	4.87
		10.8	10.67 *	09/15/03	6.03	4.64
		10.8	10.67 *	06/24/03	5.60	5.07
		10.8	10.67 *	04/08/03	5.36	5.31
		10.8	10.67 *	12/10/02	5.78	4.89
		10.8	10.67 *	09/13/02	6.21	4.46
		10.8	10.67 *	07/09/02	5.76	4.91
Second	M038-B	14.9	14.97 *	04/12/06	9.28	5.69
		14.9	14.97 *	08/22/05	11.23	3.74
		14.9	14.97 *	03/01/05	9.70	5.27
		14.9	14.97 *	11/10/04	10.85	4.12
		14.9	14.97 *	06/14/04	11.26	3.71
		14.9	14.97 *	03/02/04	9.70	5.27
		14.9	14.97 *	12/03/03	11.12	3.85
		14.9	14.97 *	09/15/03	10.21	4.76
		14.9	14.97 *	06/24/03	11.15	3.82
		14.9	14.97 *	04/08/03	10.84	4.13
		14.9	14.97 *	12/10/02	11.06	3.91
		14.9	14.97 *	09/13/02	11.44	3.53
		14.9	14.97 *	07/15/02	11.35	3.62

Table 4-2
Summary of Groundwater Level Measurements at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M039-B	16.3	16.44 *	04/12/06	10.56	5.88
		16.3	16.44 *	08/22/05	12.85	3.59
		16.3	16.44 *	03/01/05	11.16	5.28
		16.3	16.44 *	11/10/04	11.14	5.30
		16.3	16.44 *	06/14/04	12.70	3.74
		16.3	16.44 *	03/02/04	10.96	5.48
		16.3	16.44 *	12/03/03	12.41	4.03
		16.3	16.44 *	09/15/03	12.58	3.86
		16.3	16.44 *	06/24/03	12.60	3.84
		16.3	16.44 *	04/08/03	12.45	3.99
		16.3	16.44 *	12/10/02	12.47	3.97
		16.3	16.44 *	07/15/02	12.90	3.54
Second	M103-B	NA	10.76	04/12/06	1.48	9.28
Second	M105-B	NA	11.48	04/12/06	1.59	9.89
Second	M108-B	NA	12.02	04/12/06	3.28	8.74

Notes:

BTOC = below top of casing

msl = mean sea level

NA = Not available

NC = Groundwater elevation not calculated

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**82.0**	< 50.0	< 300	< 50.0	**82.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**200**	< 50.0	**180 J**	< 50.0	**380**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.33 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	**0.40 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.50 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0 J	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 40.0 UJ	< 40.0 UJ	< 240 UJ	< 50.0	< 240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M010-A	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M011-A	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**0.20 J**	**1.0**	**0.50**	< 0.50
		2005 01 (Spring)	**990**	**56.0**	**590**	< 50.0	**1,636**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50
		2004 04 (Winter)	**1,500**	**150**	**1,100**	< 50.0	**2,750**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**0.20 J**	**0.80**	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	**0.28 J**	< 1.0	< 1.0 UJ	< 1.0 UJ	**0.59 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	**0.51 J**	< 1.0	< 1.0	< 1.0	**0.97 J**	< 1.0	**0.20 J**	**0.84**	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	**0.41 J**	< 1.0	< 1.0	< 1.0	**1.1**	< 1.0	< 1.0	**0.77**	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**0.80**	< 0.50	**0.20 J**	**0.50**	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50 UJ	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50
		2002 02 (Summer)	< 100 UJ	< 100 UJ	< 600 UJ	< 50.0	< 600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50
	M012-A	2006 01 (Spring)	**44.0 J**	< 50.0	< 300	< 50.0	**44.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50
		2005 01 (Spring)	**20.0 J**	< 50.0	< 300	< 50.0	**20.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	**1.0**	**150**	**300**	**1,750**	**1,750**	NA	**13.0**	**70.0**	**600**	NA	**5.0**	**5.0**	**5.0**	**6.0**	**6.0**	**10.0**	**5.0**	**0.50**	**200**	**0.50**
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M012-A	2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M013-A	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**23.0 J**	**23.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 100 UJ	< 100 UJ	< 600 UJ	< 50.0	< 600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M014-A	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**14.0 J**	< 50.0	< 300	< 50.0	**14.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	**51.0**	**51.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 100 UJ	< 100 UJ	< 600 UJ	< 50.0	< 600	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M016-A	2006 01 (Spring)	< 50.0	**76.0**	< 300	**25.0 J**	**101**	**1.1**	< 0.50	< 0.50	< 0.50	**0.10 J**	< 2.0	< 0.50	**0.40 J**	**0.10 J**	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	**56.0 J**	**20.0 J**	**76.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.10 J**	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**1,800**	**370**	**570**	< 50.0	**2,740**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**560**	**70.0**	**280 J**	< 50.0	**910**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J
		2004 01 (Spring)	**100 J**	< 280	< 190	< 50.0	**100**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	**0.34 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	**0.24 J**	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	**0.53 J**	< 1.0 UJ	< 1.0	< 1.0	**0.25 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**1.6 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.40 J**	< 0.50 UJ	**0.30 J**	< 0.50 UJ	< 0.50 UJ	**0.20 J**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M016-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**4,300**	**880**	**1,300**	< 50.0	**6,480**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**860**	**110**	**370**	< 50.0	**1,340**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J
		2004 01 (Spring)	**160 J**	< 280	< 190	< 50.0	**160**	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	**1.9 J**	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.20 J**	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.25 J**	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.27 J**	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.30 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
	M017-A	2006 01 (Spring)	< 50.0	**55.0**	< 300	< 50.0	**55.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**39.0 J**	< 50.0 UJ	< 300 UJ	< 50.0	**39.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50 J	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M018-A	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**570**	< 50.0	**260 J**	< 50.0	**830**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**150**	< 50.0	< 300	< 50.0	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-A	2003 04 (Winter)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M018-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**780**	**66.0**	**160 J**	< 50.0	**1,006**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M019-A	2006 01 (Spring)	< 50.0	**62.0**	< 300	< 50.0	**62.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50
		2005 01 (Spring)	**220 J**	< 50.0 UJ	**260 J**	< 50.0 UJ	**480**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M019-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	**24.0 J**	**24.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**8.0**	< 0.50
		2004 04 (Winter)	**67.0**	< 50.0	< 300	< 50.0	**67.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M020-A	2006 01 (Spring)	< 50.0	**56.0**	**120 J**	< 50.0	**176**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	**21.0 J**	**21.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**170 J**	< 50.0 UJ	**150 J**	< 50.0 UJ	**320**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**100**	< 50.0	**190 J**	< 50.0	**290**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-A	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 J	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
	M020-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50
		2005 01 (Spring)	**130 J**	< 50.0 UJ	< 300 UJ	< 50.0 UJ	**130**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**120 J**	< 50.0	< 300	< 50.0	**360**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 300	< 200	< 50.0	< 300	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	**100**	< 50.0	**100 J**	< 50.0	**200**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M021-A	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**180 J**	< 50.0 UJ	**170 J**	< 50.0 UJ	**350**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**110**	< 50.0	< 300	< 50.0	**110**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
	M021-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**390 J**	**59.0 J**	**120 J**	< 50.0 UJ	**569**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**280**	< 50.0	< 300	< 50.0	**280**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-E	2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M022-A	2006 01 (Spring)	**46.0 J**	< 50.0	< 300	< 50.0	**46.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.50**	< 0.50	**0.10 J**	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	**0.30 J**	**0.080 J**	**0.20 J**	**2.3 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	**2,500 J**	**340 J**	**490 J**	< 50.0 UJ	**3,330**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	**0.60 J**	< 0.50 UJ	**0.10 J**	**1.9 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**2,500**	**170**	**3,400**	< 50.0 UJ	**6,070**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	**0.20 J**	**1.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	**0.30 J**	< 1.0	< 1.0	**1.5**	< 1.0	**0.40 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 01 (Spring)	**220**	< 290	**190 J**	< 50.0	**410**	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	**0.29 J**	< 1.0 UJ	< 1.0 UJ	**1.5 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**110 J**	< 280	**140 J**	< 50.0	**250**	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	**0.29 J**	< 1.0 UJ	< 1.0 UJ	**2.3 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**210**	< 280	< 190	< 50.0	**210**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	**1.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**320**	< 280	**110 J**	< 50.0	**430**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.29 J**	< 1.0	< 1.0	**2.1**	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.40 J**	< 0.50	**0.10 J**	**2.3**	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	**36.0 J**	**36.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	**1.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M022-E	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**530 J**	**67.0 J**	**220 J**	< 50.0 UJ	**817**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**8.0 J**	**8.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**110 J**	< 280	**160 J**	< 50.0	**270**	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**100 J**	< 280	< 190	< 50.0	**100**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M023-A	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**23.0 J**	< 50.0	< 300	< 50.0	**23.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**820 J**	< 50.0 UJ	**510 J**	< 50.0 UJ	**1,330**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	**0.40 J**	< 0.50 UJ	< 0.50 UJ	**0.90 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**650**	**56.0**	**300**	< 50.0	**1,006**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.50**	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.10 J**	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	**110 J**	< 290	**140 J**	< 50.0	**250**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.30 J**	< 1.0	< 1.0	**0.98 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-A	2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	**0.32 J**	< 1.0 UJ	< 1.0 UJ	**0.94 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**250**	< 290	**250**	< 50.0	**500**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	**0.40 J**	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**110 J**	< 280	< 190	< 50.0	**110**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.26 J**	< 1.0	< 1.0	**0.67 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.50**	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**36.0 J**	**36.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.50**	< 0.50	< 0.50	**0.80**	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	**28.0 J**	**28.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	**0.60**	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**2.6**	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M023-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**1,300 J**	**240 J**	**290 J**	< 50.0 UJ	**1,830**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**1,700**	**280**	**220 J**	< 50.0	**2,200**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 310	< 200	< 50.0	< 310	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.70 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.40 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M024-A	2006 01 (Spring)	< 50.0	**200**	< 300	**480**	**680**	**13.0**	< 3.1	< 3.1	< 3.1	< 3.1	< 13.0	< 3.1	**320**	< 3.1	**2.7 J**	**14.0**	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
		2005 02 (Summer)	**190**	**300**	< 300	**410**	**900**	**14.0**	**0.30 J**	< 1.7	< 1.7	**0.50 J**	< 6.7	< 1.7	**180**	< 1.7	**2.8**	**8.6**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2005 01 (Spring)	**6,900 J**	**1,700 J**	**4,300 J**	**600 J**	**13,500**	**13.0 J**	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 8.0 UJ	< 2.0 UJ	**410 J**	< 2.0 UJ	**2.4 J**	**20.0 J**	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ	< 2.0 UJ
		2004 04 (Winter)	**4,900**	**970**	**5,200**	**370**	**11,440**	**8.1**	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	< 1.7	**270**	**0.40 J**	**2.0**	**11.0**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	**70.0**	**140**	< 300	**470**	**680**	**20.0**	**0.10 J**	**0.20 J**	**0.30 J**	**0.50**	**0.10 J**	< 0.50	**180**	**0.40 J**	**2.6**	**11.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	**660**	**340**	**98.0 J**	**590**	**1,688**	**19.0**	**0.39 J**	< 1.0	< 1.0	**0.57 J**	< 2.0	< 5.0	**260**	**0.54 J**	**2.9**	**16.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**190**	< 290	< 190	**540**	**730**	**4.9 J**	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	**1.1 J**	< 5.0 UJ	**390 J**	**0.45 J**	**2.1 J**	**13.0 J**	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 03 (Fall)	**210**	**230 J**	< 200	**520**	**960**	**10.0**	**0.29 J**	< 1.0	< 1.0	**0.32 J**	**1.6 J**	< 5.0	**250 J**	**0.43 J**	**2.7**	**12.0**	< 1.0	< 1.0	< 1.0	**0.24 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.62**
		2003 02 (Summer)	**630**	**250 J**	< 190	**540**	**1,420**	**17.0**	**0.37 J**	< 1.0	< 1.0	**0.55 J**	**1.8 J**	< 5.0	**220**	**0.39 J**	**2.2**	**10.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	**77.0 J**	**120 J**	< 300 UJ	< 470 UJ	**197**	**14.0 J**	**0.40 J**	**0.20 J**	**0.30 J**	**0.40 J**	**0.60 J**	< 0.50 UJ	**210 J**	< 0.50 UJ	**2.1 J**	**12.0 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.30 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.10 J**
		2002 04 (Winter)	**110**	**160**	< 300	**740**	**1,010**	**17.0**	< 1.0	< 1.0	< 1.0	**0.60 J**	**2.1 J**	< 1.0	**370**	**0.90 J**	**2.1**	**24.0**	< 1.0	**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 03 (Fall)	**29.0 J**	< 50.0	< 300	**450**	**479**	**12.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	**290**	< 1.0	**1.6**	**9.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	**76.0 J**	**87.0 J**	< 300 UJ	**450**	**613**	**15.0**	**0.40 J**	**0.20 J**	< 0.50	**0.40 J**	**0.70 J**	< 0.70	**230**	**0.40 J**	**2.1**	**8.9**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M024-E	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**64.0**	**0.10 J**	**0.10 J**	**1.3**	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.50**
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**74.0**	**74.0**	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**65.0**	< 0.50	**0.20 J**	**1.4**	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.50**
		2005 01 (Spring)	**840 J**	**99.0 J**	**460 J**	**92.0 J**	**1,491**	**0.70 J**	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	**60.0 J**	< 0.50 UJ	**0.20 J**	**1.6 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.90 J**	< 0.50 UJ	< 0.50 UJ	**0.20 J**	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**1,400**	**200**	**390**	**130**	**2,120**	**1.3**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**89.0**	**0.20 J**	**0.30 J**	**1.7**	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.40 J**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**96.0**	**96.0**	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**62.0**	**0.10 J**	**0.20 J**	**1.3**	< 0.50	**0.40 J**	< 0.50	**0.80**	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.40 J**
		2004 01 (Spring)	< 190	< 290	< 190	**55.0**	**55.0**	**0.70**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**37.0**	< 1.0	< 1.0	**0.98 J**	< 1.0	< 1.0	< 1.0	**0.60 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.44 J**

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2003 04 (Winter)	< 190	< 280	< 190	**52.0**	**52.0**	**0.29 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	**31.0**	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	**0.56 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**130 J**	< 290	**110 J**	**56.0**	**296**	**0.61**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	**41.0**	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	**0.83 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.53**
		2003 02 (Summer)	< 190	< 290	< 190	**64.0**	**64.0**	**0.62**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**43.0**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	**0.83 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.59**
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 97.0 UJ	< 300	**1.1 J**	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	**52.0 J**	< 0.50 UJ	**0.20 J**	**1.4 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.70 J**	< 0.50 UJ	< 0.50 UJ	**0.20 J**	< 0.50 UJ	**0.40 J**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 71.0	< 300	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**39.0**	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50 J	< 0.50	**0.70**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 63.0	< 300	**0.80 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	**40.0**	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	**0.70 J**	< 1.0	< 1.0	< 1.0	< 1.0	**0.60 J**
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	**61.0**	**61.0**	**0.90**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**43.0**	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**
	M036-A	2006 01 (Spring)	**220**	**170**	**180 J**	**160**	**730**	**1.9**	**0.40 J**	**0.10 J**	**0.20 J**	**0.40 J**	< 2.0	< 0.50	**76.0**	**0.60**	**0.30 J**	**14.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**74.0**	**82.0**	**100 J**	**140**	**396**	**1.6**	**0.50**	**0.10 J**	**0.20 J**	**0.40 J**	< 2.0	< 0.50	**59.0**	**0.80**	**0.30 J**	**13.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**5,400**	**1,000**	**4,000**	**190**	**10,590**	**1.3**	**0.50**	**0.10 J**	**0.30 J**	**0.40 J**	**1.0 J**	< 0.50	**62.0**	**0.70**	**0.40 J**	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**5,300**	**1,300**	**1,700**	**110**	**8,410**	**1.4**	**0.70**	**0.20 J**	**0.20 J**	**0.30 J**	< 2.0	< 0.50	**49.0**	**0.60**	**0.20 J**	**11.0**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**76.0**	**76.0**	< 300	**160**	**312**	**1.5**	**0.30 J**	**0.10 J**	< 0.50	**0.30 J**	< 2.0	< 0.50	**50.0**	**0.70**	**0.30 J**	**9.9**	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	**750**	< 290	**240**	**170**	**1,160**	**1.2**	**0.54 J**	< 1.0	< 1.0	**0.35 J**	**1.5 J**	< 5.0	**48.0**	**0.62 J**	**0.25 J**	**10.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**180 J**	< 280	< 190	**150**	**330**	**1.6 J**	**0.78 J**	< 1.0 UJ	< 1.0 UJ	**0.37 J**	**0.74 J**	< 5.0	**44.0 J**	**0.84 J**	**0.30 J**	**12.0 J**	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**680**	< 280	**140 J**	**160**	**980**	**0.94 J**	**0.62 J**	< 1.0 UJ	< 1.0 UJ	**0.53 J**	< 2.0	< 5.0	**40.0 J**	**0.78 J**	**0.36 J**	**11.0 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**5,100**	**250 J**	**4,600**	**150**	**10,100**	**2.6**	**0.69 J**	< 1.0	< 1.0	**0.42 J**	< 2.0	< 5.0	**44.0**	**0.58 J**	**0.21 J**	**9.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	**59.0 J**	**59.0 J**	< 300 UJ	**140 J**	**258**	**0.80 J**	**0.60 J**	< 0.50 UJ	< 0.50 UJ	**0.60 J**	**0.60 J**	< 0.50 UJ	**39.0 J**	**0.60 J**	**0.30 J**	**9.7 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	**200**	**110**	**77.0 J**	**160**	**547**	**2.3**	**0.60**	< 0.50	< 0.50	**0.40 J**	**1.5 J**	< 0.50	**59.0**	**0.70**	**0.30 J**	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	**48.0 J**	**56.0**	< 300	**130**	**234**	**3.1**	**0.60**	< 0.50	< 0.50	**0.30 J**	< 2.0	< 0.50	**58.0**	**0.70**	< 0.50	**11.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**50.0 J**	**60.0 J**	< 300 UJ	**160**	**270**	**1.4**	**0.50 J**	< 0.50	< 0.50	**0.40 J**	**0.30 J**	< 0.50	**42.0**	**0.70**	**0.30 J**	**11.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M036-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**2,900**	**600**	**900**	**32.0 J**	**4,432**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**3,100**	**540**	**540**	< 50.0	**4,180**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**23.0 J**	**23.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**310**	< 280	< 190	< 50.0	**310**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M037-A	2006 01 (Spring)	**130**	**78.0**	**230 J**	**250**	**688**	**24.0**	**0.30 J**	**0.20 J**	**0.40 J**	< 1.0	**2.4 J**	< 1.0	**170**	**0.20 J**	**0.20 J**	**11.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	**38.0 J**	< 50.0 UJ	< 300	**240**	**278**	**36.0**	**0.40 J**	**0.30 J**	**0.60**	**0.30 J**	**3.4**	< 0.50	**190**	**0.10 J**	**0.20 J**	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**3,100**	**920**	**980**	**290**	**5,290**	**20.0**	**0.30 J**	**0.20 J**	**0.50 J**	< 0.80	**0.90 J**	< 0.80	**130**	< 0.80	< 0.80	**8.6**	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
		2004 04 (Winter)	**8,400**	**1,900**	**2,400**	**290**	**12,990**	**24.0**	**0.30 J**	**0.20 J**	< 1.3	< 1.3	< 5.0	< 1.3	**160**	< 1.3	< 1.3	**9.4**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2004 02 (Summer)	**41.0 J**	< 50.0	< 300	**160**	**201**	**12.0**	< 0.50	**0.10 J**	**0.30 J**	**0.10 J**	**0.40 J**	< 0.50	**87.0**	< 0.50	< 0.50	**5.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	**1,100**	**230 J**	**230**	**230**	**1,790**	**19.0**	**0.27 J**	< 1.0	**0.51 J**	< 1.0	**2.7**	< 5.0	**130**	< 1.0	< 1.0	**9.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-A	2003 04 (Winter)	340	< 280	< 190	350	690	47.0 J	1.5 J	0.56 J	1.3 J	0.64 J	7.0 J	0.52 J	280 J	< 1.0 UJ	0.34 J	18.0 J	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	1,400	230 J	310	370	2,310	20.0 J	0.23 J	< 1.0 UJ	0.85 J	0.55 J	6.3 J	< 5.0 UJ	170 J	0.21 J	0.28 J	14.0 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 02 (Summer)	7,900	240 J	6,800	280	15,220	24.0	0.21 J	0.27 J	0.69 J	0.36 J	5.3	< 5.0	200	< 1.0	0.20 J	12.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	220 J	220	20.0 J	0.30 J	0.20 J	0.60 J	0.50 J	3.7 J	< 0.50 UJ	140 J	0.10 J	< 0.50 UJ	11.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	470	140	180 J	250	1,040	0.30 J	< 0.50 UJ	< 0.50 J	0.50 J	0.30 J	4.3	< 0.50	2.6 J	< 0.50 UJ	< 0.50 J	12.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	60.0	58.0	< 300	280	398	27.0	0.40 J	0.40 J	0.90	0.40 J	7.2	0.30 J	170	< 0.50	< 0.50	12.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	60.0 J	< 50.0 UJ	< 300 UJ	200	260	12.0	< 0.50	< 0.50 J	0.40 J	< 0.50	3.4	< 0.50	83.0	< 0.50	< 0.50	7.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M037-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	980	120	490	< 50.0	1,590	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	770	120	200 J	< 50.0	1,090	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	680	< 280	600	< 50.0	1,280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	25.0 J	< 50.0	< 300	< 50.0	25.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M038-A	2006 01 (Spring)	< 50.0	110	650	< 50.0	760	4.2	0.10 J	< 0.50	< 0.50	0.30 J	< 2.0	< 0.50	1.7	0.30 J	< 0.50	12.0	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	23.0 J	< 50.0	140 J	< 50.0	163	4.6	0.20 J	0.80	0.40 J	0.90	< 2.0	< 0.50	0.80	< 0.50	< 0.50	8.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	2,500	590	860	66.0	4,016	4.8	0.20 J	< 0.50	< 0.50	0.30 J	< 2.0	< 0.50	1.9	0.50	< 0.50	13.0	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	6,400	1,600	1,300	< 50.0	9,300	6.8	0.30 J	0.30 J	0.30 J	0.80	< 2.0	< 0.50	3.6	< 0.50	< 0.50	20.0	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 56.0	< 300	3.2	< 0.50	1.4	0.50 J	1.2	2.0 J	< 0.50	1.2	0.20 J	< 0.50	4.8	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	400	220 J	330	80.0	1,030	6.5 J	0.21 J	0.32 J	0.44 J	0.81 J	< 2.0	< 5.0	3.6 J	0.40 J	< 1.0 UJ	18.0 J	< 1.0	< 1.0	< 1.0	0.32 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	150 J	< 290	140 J	63.0	353	5.7	0.51 J	0.51 J	0.90 J	1.5	2.5	< 5.0	3.2	0.26 J	< 1.0	13.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	2,600	220 J	1,100	23.0 J	3,943	2.3	0.53 J	0.82 J	1.5	1.1	1.5 J	< 5.0	0.50 J	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	610	< 280	130 J	60.0 J	800	3.3 J	0.34 J	2.1 J	0.40 J	1.7 J	4.4 J	< 5.0 UJ	1.2 J	< 1.0 UJ	< 1.0 UJ	4.4 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 94.0 UJ	< 300	7.0 J	0.20 J	0.20 J	0.20 J	0.80 J	1.0 J	< 0.50 UJ	3.2 J	0.30 J	< 0.50 UJ	13.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	0.40 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	350	96.0	230 J	150	826	6.0	0.30 J	< 0.50 J	< 0.50	1.2	2.4	< 0.50	4.8	0.60	< 0.50	22.0	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 76.0	< 300	3.6	0.60 J	1.9	0.80 J	1.1	2.8 J	< 1.0	1.1	< 1.0	< 1.0	4.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	70.0	70.0	2.9	0.80	2.5	1.0	1.5	3.4	< 0.50	0.90	< 0.50	< 0.50	3.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M038-E	2005 02 (Summer)	< 50.0	< 50.0 UJ	540	< 50.0	540	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	700	190	770	< 50.0	1,660	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	1,500	310	390	< 50.0	2,200	< 0.50	< 0.50	0.090 J	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-E	2003 03 (Fall)	**140 J**	< 300	**120 J**	< 50.0	**260**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	**0.10 J**	< 0.50 UJ	< 0.50 UJ	**0.40 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	**93.0**	< 50.0	< 300	< 50.0	**93.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	**1.1 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M039-A	2006 01 (Spring)	**370**	**490**	**160 J**	**150**	**1,170**	**4.5**	**1.0**	**1.8**	**1.8**	**2.5**	**86.0**	< 0.50	**14.0**	**1.0**	**0.40 J**	**19.0**	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**280**	**470**	**58.0 J**	**160**	**968**	**2.1**	**1.3**	**5.2**	**8.4**	**5.3**	**190**	< 1.0	**7.4**	**0.50 J**	**0.30 J**	**9.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2005 01 (Spring)	**6,600**	**2,800**	**2,100**	**270**	**11,770**	**5.7**	**1.5**	**7.0**	**9.4**	**5.5**	**130**	< 0.50	**18.0**	**1.0**	**0.30 J**	**18.0**	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**
		2004 04 (Winter)	**8,900**	**1,800**	**8,800**	**110**	**19,610**	**1.9**	**0.70**	**2.0**	**2.7**	**1.9**	**99.0**	< 0.50	**5.8**	**0.40 J**	**0.10 J**	**5.7**	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**120**	**270**	< 300	**180**	**570**	**1.3 J**	**0.80 J**	**3.8**	**5.2**	**2.2**	**260**	< 1.7	**6.0**	< 1.7	< 1.7	**7.1**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7 J	< 1.7
		2004 01 (Spring)	**1,100**	**250 J**	**170 J**	**580**	**2,100**	**3.4**	**1.1**	**4.4**	**6.7**	**4.2**	**290**	< 5.0	**7.0**	**0.64 J**	**0.50 J**	**11.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**620**	< 290	< 190	**510**	**1,130**	**2.0**	**1.6**	**6.0**	**8.3**	**5.1**	**200**	< 5.0	**8.8**	**0.63 J**	< 1.0	**9.9**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**1,300**	**260 J**	**270**	**330**	**2,160**	**2.1 J**	**1.1 J**	**3.0 J**	**4.4 J**	**3.0 J**	**120**	< 5.0	**7.1 J**	**0.53 J**	< 1.0 UJ	**7.6 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**6,900**	**440**	**5,000**	**510**	**12,850**	**1.6**	**1.1**	**5.0**	**7.5**	**4.1**	**210**	< 5.0	**6.8**	**0.42 J**	< 1.0	**7.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	**48.0 J**	**100 J**	< 300 UJ	**160 J**	**308**	**2.3 J**	**1.1 J**	**5.2 J**	**8.1 J**	**4.0 J**	**260 J**	< 0.50 UJ	**5.7 J**	**0.40 J**	< 0.50 UJ	**7.3 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.20 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 04 (Winter)	**83.0**	**160**	< 300	**190**	**433**	**5.6**	**1.0**	**3.4**	**6.2**	**3.2**	**150**	< 0.50	**5.8**	**0.80**	< 0.50 J	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	**56.0**	**78.0**	< 300	< 98.0	**134**	**2.0**	**0.80**	**1.5**	**2.3**	**1.4**	**23.0**	**0.30 J**	**6.8**	**0.40 J**	< 0.50	**6.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**37.0 J**	< 40.0 UJ	< 240 UJ	**110**	**147**	**2.3**	**0.80**	< 0.50	< 0.50	**0.80**	**0.30 J**	< 0.50	**6.3**	**0.40 J**	< 0.50	**5.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	M010-B	2006 01 (Spring)	< 50.0	**57.0**	**160 J**	< 50.0	**217**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	**90.0 J**	**21.0 J**	**111**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50
		2004 04 (Winter)	**73.0**	< 50.0	< 300	< 50.0	**73.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	M012-B	2006 01 (Spring)	**37.0 J**	< 50.0	< 300	-	**37.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M013-C	2006 01 (Spring)	**44.0 J**	< 50.0	< 300	< 50.0	**44.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M013-C	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M014-B	2006 01 (Spring)	< 50.0	< 50.0	**81.0 J**	< 50.0	**81.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**51.0**	**3,200**	< 300	< 50.0	**3,251**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	**130 J**	< 50.0	**130**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M016-B	2006 01 (Spring)	< 50.0	**66.0**	< 300	< 50.0	**66.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	**0.10 J**	**0.40 J**	**0.10 J**	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	M020-B	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**58.0**	< 50.0	**91.0 J**	< 50.0	**149**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M021-C	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**150**	< 50.0	< 300	< 50.0	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	M023-B	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M023-B	2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	**0.50 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**120**	< 50.0	< 300	< 50.0	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**12.0 J**	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**32.0 J**	**32.0**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M023-C	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**140**	< 50.0	< 300	< 50.0	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190 UJ	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**25.0 J**	**25.0**	< 0.50 UJ	**0.50 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M036-B	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**600**	< 50.0	**450**	< 50.0 UJ	**1,050**	< 0.50	**0.10 J**	**0.060 J**	< 0.50	< 0.50	< 2.0 UJ	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**360**	< 280	**560**	< 50.0	**920**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M037-B	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**56.0**	< 50.0	< 300	< 50.0	**56.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	**2.1**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M038-B	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	**130 J**	< 50.0	**130**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-3

Groundwater Sample Analytical Results at IR Site 2: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
				TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M038-B	2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M039-B	2006 01 (Spring)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)		< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)		< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50 J
		2003 02 (Summer)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	**11.0 J**	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
	M011-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	**20.0 J**	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	**11.0 J**	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M011-A	2003 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M012-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**13.0 J**	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
	M013-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	**2.4 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M013-A	2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M014-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	**1.7 J**	< 9.5	< 9.5	< 9.5	**2.8 J**	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M016-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	**2.3 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**19.0 J**	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M016-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	**7.9 J**	< 9.5	< 9.5 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-E	2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M017-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M018-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0 J	< 13.0 J	< 13.0	< 13.0	< 13.0 J	< 13.0	< 13.0	< 13.0	< 63.0 J	< 13.0	< 13.0	< 13.0	< 13.0
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-A	2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M018-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M019-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	**19.0 J**	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M019-A	2003 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	-
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6
	M019-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
	M020-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5 J	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-A	2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8
	M020-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5 UJ	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M021-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	**0.58 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 49.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-A	2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
	M021-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9 UJ	< 9.9
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M022-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**18.0 J**	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	**20.0 J**	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5 J	< 9.5 J	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M022-A	2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8 UJ	< 9.8
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M022-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	**19.0 J**	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
	M023-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	**19.0 J**	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

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		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-A	2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
	M023-E	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 49.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	**0.51 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**19.0 J**	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
		2003 01 (Spring)	**0.65 J**	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-A	2006 01 (Spring)	**1.6 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.1 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	**1.4 J**
		2005 02 (Summer)	**3.1 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**1.4 J**	< 9.5 UJ	**0.75 J**	**0.56 J**	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	**1.3 J**	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	**1.3 J**	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2004 04 (Winter)	**7.4 J**	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7	**1.5 J**	< 9.7 UJ	**0.39 J**	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	**1.1 J**
		2004 02 (Summer)	**1.9 J**	< 9.8	< 9.8	< 9.8	< 9.8 J	< 9.8	< 9.8	**0.88 J**	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 J	< 9.8	< 9.8 J	< 9.8 J	< 9.8
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	**7.7 J**	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 03 (Fall)	**5.2 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 38.0	< 38.0	< 38.0
		2003 01 (Spring)	**4.6 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.4 J**	< 9.4	**1.4 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	**1.8 J**	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2002 03 (Fall)	**10.0**	< 9.9	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9
		2002 02 (Summer)	**4.8 J**	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8
	M024-E	2006 01 (Spring)	**1.7 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	**2.5 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	**2.4 J**	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	**20.0 J**	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ
		2004 04 (Winter)	**1.5 J**	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5 J	< 9.5 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2003 01 (Spring)	**1.3 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	**3.0 J**	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	**0.50 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M036-A	2006 01 (Spring)	**16.0**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**4.8 J**	< 9.5	**1.5 J**	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	**10.0**	**0.29 J**	< 9.5	< 9.5	< 9.5	< 9.5	**0.23 J**	**3.2 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	**11.0**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 9.5	**3.2 J**	< 9.5 UJ	**0.87 J**	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	**8.6 J**	**0.29 J**	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	**3.0 J**	< 9.8	< 9.8	< 9.8	< 9.8	**20.0 J**	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	**8.3 J**	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	**2.8 J**	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	**10.0**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	**7.7 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	**9.4 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	**13.0 J**	< 19.0	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0 UJ	< 19.0	< 19.0	< 19.0 UJ	< 19.0	< 19.0	< 19.0 UJ	< 95.0	< 19.0	< 19.0	< 19.0	< 19.0
		2003 01 (Spring)	**9.8 J**	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	**4.3 J**	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2002 04 (Winter)	**10.0**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**2.1 J**	< 9.4	**0.63 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	**7.7 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	**1.8 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	**7.4 J**	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	**2.8 J**	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
	M036-E	2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

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		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-E	2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 49.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ
	M037-A	2006 01 (Spring)	**2.2 J**	**0.46 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.8 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	**2.4 J**	**0.48 J**	< 9.4	< 9.4	< 9.4	< 9.4	**0.52 J**	< 9.4	< 9.4	**2.4 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	**2.2 J**	< 9.9	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9	< 9.9	< 9.9 UJ	**2.2 J**	< 9.9	< 9.9	< 50.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9
		2004 04 (Winter)	**2.4 J**	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	**3.8 J**	< 9.9	< 9.9	**11.0 J**	< 9.9	< 9.9	< 9.9	< 9.9
		2004 02 (Summer)	**2.3 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**2.0 J**	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**5.3 J**	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**5.0 J**	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 38.0	< 38.0	< 38.0
		2003 01 (Spring)	**2.4 J**	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	**4.8 J**	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2002 04 (Winter)	**2.3 J**	< 9.4	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	**0.76 J**	< 9.4	< 9.4 UJ	**3.7 J**	**0.96 J**	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	**2.7 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	**5.1 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	**2.4 J**	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	**0.84 J**	< 9.4 UJ	< 9.4 UJ	**3.2 J**	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
	M037-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0 UJ	< 9.8	< 9.8	< 9.8 UJ	< 9.8

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-E	2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	**11.0 J**	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 J	< 9.7 J	< 9.7	< 9.7	< 9.7 J	< 9.7	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	< 9.7
		2004 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
	M038-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**1.4 J**	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**0.88 J**	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	**1.2 J**	< 9.8	< 9.8	**12.0 J**	< 9.8	< 9.8	< 9.8	< 9.8
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 J	< 9.7 J	< 9.7	< 9.7	< 9.7 J	**0.61 J**	< 9.7	< 9.7	< 49.0 J	< 9.7	< 9.7	< 9.7	< 9.7
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 38.0	< 38.0	< 38.0
		2003 01 (Spring)	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 56.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**1.5 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
	M038-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

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Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-E	2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5 UJ	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 49.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
	M039-A	2006 01 (Spring)	**16.0**	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	**0.24 J**	**6.4 J**	< 9.7	**45.0**	**0.93 J**	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2005 02 (Summer)	**12.0**	**0.37 J**	< 9.6	< 9.6	< 9.6	< 9.6	**0.41 J**	**4.8 J**	< 9.6	**73.0**	**0.79 J**	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 01 (Spring)	**12.0 J**	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	**4.1 J**	< 9.7 UJ	**73.0 J**	**1.4 J**	< 9.7 UJ	< 49.0	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7
		2004 04 (Winter)	**8.6 J**	**0.77 J**	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	**4.2 J**	< 9.7	**19.0**	**1.1 J**	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	**16.0**	**0.79 J**	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	**5.5 J**	< 9.4 J	**150**	**1.0 J**	< 9.4	**10.0 J**	< 9.4	< 9.4 J	< 9.4	< 9.4
		2004 01 (Spring)	**16.0**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**7.0 J**	< 9.4	**53.0**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	**12.0**	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	**5.4 J**	< 9.7	**92.0**	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7
		2003 03 (Fall)	**11.0**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**4.8 J**	< 9.5	**60.0**	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	**13.0**	< 9.5	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5	**6.1 J**	< 9.5 UJ	**78.0**	< 9.5	< 9.5 UJ	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 01 (Spring)	**11.0 J**	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	**3.9 J**	< 9.5 UJ	**85.0 J**	< 9.5 UJ	< 9.5 UJ	< 48.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ
		2002 04 (Winter)	**19.0**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**8.0 J**	< 9.5	**120**	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Summer 2002 through Spring 2006
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			Detected SVOCs																	
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		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M039-A	2002 03 (Fall)	**7.1 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	**3.1 J**	< 9.4	**17.0**	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	**6.9 J**	**0.65 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**3.1 J**	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
SWBZ	M010-B	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 J	< 9.6 J	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 48.0 J	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M012-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
	M013-C	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0 J	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M013-C	2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
	M014-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0
	M016-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	**1.1 J**	**0.75 J**	**8.6 J**	**5.9 J**	< 9.6	< 9.6	**6.9 J**	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M020-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

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Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M020-B	2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 UJ	< 9.4	< 9.4
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9
	M021-C	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7 UJ	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0 UJ	< 10.0	< 10.0	< 10.0	< 10.0
	M023-B	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 9.7	< 9.7	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4
	M023-C	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

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			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M023-C	2005 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	**11.0 J**	< 9.4	< 9.4	< 9.4	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 9.6 UJ	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
	M036-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 47.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 J	< 9.6	< 9.6 J	< 9.6 J	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 50.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ
	M037-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 49.0	< 9.7	< 9.7	< 9.7	< 9.7
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6 J	< 9.6 J	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 48.0 J	< 9.6	< 9.6	< 9.6	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M037-B	2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 50.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ
	M038-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 48.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 9.9	< 9.9	< 9.9
		2004 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9 J	< 9.9 J	< 9.9	< 9.9	< 9.9 J	< 9.9	< 9.9	< 9.9	**12.0 J**	< 9.9	< 9.9	< 9.9	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 9.8	< 9.8	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6
	M039-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6	< 9.6
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4 J	< 9.4 J	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4 J	< 9.4	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 9.5	< 9.5	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M011-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 20.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 20.0 UJ	< 10.0 UJ	< 20.0 UJ	< 10.0 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Summer 2002 through Spring 2006
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			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M011-A	2003 01 (Spring)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	**12.0 J**	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M012-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2005 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M013-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M013-A	2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M014-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M016-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	**0.94 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	**2.3 J**	< 9.4	< 19.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	**2.3 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	**1.2 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	**0.93 J**	< 19.0	< 9.4	**5.8 J**	< 9.4	< 9.4	< 9.4	**0.85 J**	< 19.0	< 9.4	**5.4 J**	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0 UJ	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M016-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-E	2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M017-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	**3.1 J**	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M018-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 13.0	< 13.0	< 13.0	< 13.0	< 25.0 J	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 25.0 J	< 13.0	< 25.0	< 13.0
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-A	2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M018-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	**3.2 J**	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M019-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M019-A	2003 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	-	< 9.6 UJ	< 9.6 UJ	-	-	< 19.0 UJ	< 9.6 UJ	-	< 9.6 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
	M019-E	2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
	M020-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4 UJ	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-A	2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
	M020-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	**3.4 J**	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5 UJ
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0 UJ	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M021-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7 UJ
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
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			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-A	2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
	M021-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9 UJ
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 UJ	< 9.5
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M022-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	**1.5 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	**1.9 J**	< 19.0	< 9.5	< 9.5	**3.4 J**	< 9.5	< 9.5	< 9.5	< 19.0	**0.79 J**	< 19.0	**0.70 J**
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	**1.4 J**	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	**1.4 J**	< 20.0	**0.37 J**	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	**0.34 J**
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	**1.2 J**	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M022-A	2004 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8 UJ
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.8	< 9.8	< 9.8	-	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	**1.1 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	**1.6 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	**1.3 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M022-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 03 (Fall)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
	M023-A	2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	**0.57 J**	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	**4.7 J**	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-A	2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 19.0 UJ	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	**0.89 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	**1.2 J**	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
	M023-E	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 50.0	< 10.0	< 50.0	< 10.0
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 UJ	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 UJ	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	**1.7 J**	< 9.4
		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	**3.9 J**	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-A	2006 01 (Spring)	< 9.4	< 9.4	**1.8 J**	**9.4**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**2.6 J**
		2005 02 (Summer)	**1.0 J**	< 9.5	**2.0 J**	**7.0 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	**3.6 J**
		2005 01 (Spring)	< 9.5 UJ	**0.58 J**	**1.7 J**	**14.0 J**	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	**2.7 J**
		2004 04 (Winter)	**1.8 J**	< 9.7	**1.6 J**	**7.4 J**	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	**1.4 J**
		2004 02 (Summer)	< 9.8	< 9.8	**1.3 J**	**5.2 J**	< 20.0 J	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0 J	< 9.8	< 20.0 J	**1.9 J**
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	**8.3 J**	< 19.0	< 9.5	< 9.5	< 9.5	**5.1 J**	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	**6.6 J**	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	**5.6 J**	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 76.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 190	< 38.0
		2003 01 (Spring)	**2.2 J**	< 9.4	< 9.4	**5.4 J**	< 19.0	**3.4 J**	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**6.4 J**
		2002 04 (Winter)	< 9.7	< 9.7	**0.91 J**	**10.0**	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2002 03 (Fall)	**3.0 J**	< 9.9	**1.1 J**	**6.6 J**	< 20.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 02 (Summer)	< 9.8	< 9.8	**1.2 J**	**5.2 J**	< 20.0	< 9.8	< 9.8	< 9.8	**2.8 J**	< 9.8	< 9.8	< 20.0	< 9.8	**11.0 J**	**1.5 J**
	M024-E	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	**0.70 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	**1.0 J**	< 19.0 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ	< 19.0 UJ	< 9.7 UJ
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	**0.72 J**	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

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Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2003 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**5.5 J**
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	**0.74 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M036-A	2006 01 (Spring)	**5.7 J**	< 9.5	< 9.5	**8.8 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	**1.5 J**
		2005 02 (Summer)	**4.0 J**	< 9.5	< 9.5	**7.9 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	**1.7 J**
		2005 01 (Spring)	**4.3 J**	< 9.5	< 9.5	**8.9 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	**1.5 J**
		2004 04 (Winter)	**3.7 J**	**0.51 J**	< 9.8	**6.7 J**	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	**0.73 J**
		2004 02 (Summer)	**3.7 J**	< 9.5	< 9.5	**6.7 J**	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	**1.2 J**
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	**5.7 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	**5.5 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	**6.2 J**	< 19.0	< 9.4	< 9.4	< 9.4	**5.6 J**	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 19.0	< 19.0	< 19.0	< 19.0	< 38.0 UJ	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 95.0	< 19.0	< 95.0	< 19.0
		2003 01 (Spring)	**4.5 J**	< 9.4 UJ	< 9.4 UJ	**6.8 J**	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	**2.4 J**	**1.1 J**
		2002 04 (Winter)	**3.5 J**	< 9.4	< 9.4	**7.2 J**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**1.5 J**
		2002 03 (Fall)	**2.9 J**	< 9.4	< 9.4	**7.7 J**	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**1.8 J**
		2002 02 (Summer)	**3.2 J**	< 9.4 UJ	< 9.4 UJ	**5.3 J**	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	**0.99 J**
	M036-E	2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 UJ	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0 J	< 9.5
		2004 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-E	2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ
	M037-A	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	**7.4 J**	< 19.0	< 9.4	< 9.4	< 9.4	**1.0 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**1.9 J**
		2005 02 (Summer)	< 9.4	< 9.4	< 9.4	**8.9 J**	< 19.0	< 9.4	< 9.4	< 9.4	**4.2 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**3.1 J**
		2005 01 (Spring)	< 9.9	< 9.9	< 9.9	**8.8 J**	< 20.0	< 9.9	< 9.9	< 9.9	**4.0 J**	< 9.9	< 9.9	-	< 9.9	< 20.0	**2.3 J**
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	**9.9**	< 20.0	< 9.9	< 9.9	< 9.9	**5.4 J**	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	**2.6 J**
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	**8.0 J**	< 19.0	< 9.6	< 9.6	< 9.6	**2.0 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	**2.6 J**
		2004 01 (Spring)	< 9.6	< 9.6	< 9.6	**7.4 J**	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	**9.0 J**	< 19.0	< 9.5	< 9.5	< 9.5	**8.8 J**	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	**5.2 J**
		2003 03 (Fall)	< 9.6	< 9.6	< 9.6	**7.4 J**	< 19.0	< 9.6	< 9.6	< 9.6	**5.7 J**	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 76.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 190	< 38.0
		2003 01 (Spring)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	**9.3 J**	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	**3.2 J**	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	**3.0 J**
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	**7.0 J**	< 19.0	< 9.4	< 9.4	< 9.4	**4.7 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**2.5 J**
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	**6.7 J**	< 19.0 UJ	< 9.4	< 9.4	< 9.4	**3.3 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	**3.7 J**
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	**5.4 J**	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	**1.4 J**	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	**2.8 J**
	M037-E	2005 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	-	< 9.8	< 20.0	< 9.8

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M037-E	2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 J	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 J	< 9.7
		2004 01 (Spring)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 01 (Spring)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0 UJ	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
	M038-A	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	**7.8 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	**3.0 J**	< 19.0	< 9.6	< 9.6	< 9.6	**0.59 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	< 9.5	< 9.5	< 9.5	**8.9 J**	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.8	< 9.8	< 9.8	**18.0**	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 02 (Summer)	< 9.7	< 9.7	< 9.7	**4.2 J**	< 19.0 J	< 9.7	**2.1 J**	< 9.7	< 9.7	**1.4 J**	**5.7 J**	< 19.0 J	< 9.7	**12.0 J**	< 9.7
		2004 01 (Spring)	< 9.9	< 9.9	< 9.9	**8.7 J**	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9
		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	**6.8 J**	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
		2003 03 (Fall)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 38.0	< 38.0	< 38.0	< 38.0	< 75.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 38.0	< 190	< 38.0	< 190	< 38.0
		2003 01 (Spring)	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	**15.0 J**	< 22.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 11.0 UJ	< 22.0 UJ	< 11.0 UJ	< 22.0 UJ	< 11.0 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	**16.0**	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M038-E	2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-E	2005 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	-	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 03 (Fall)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ	< 20.0 UJ	< 9.8 UJ
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 03 (Fall)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0 UJ	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
	M039-A	2006 01 (Spring)	**7.2 J**	**0.65 J**	< 9.7	**12.0**	< 19.0	< 9.7	**3.7 J**	< 9.7	**6.2 J**	< 9.7	< 9.7	**3.4 J**	< 9.7	< 19.0	< 9.7
		2005 02 (Summer)	**5.1 J**	< 9.6	< 9.6	**5.4 J**	< 19.0	< 9.6	< 9.6	< 9.6	**9.1 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 01 (Spring)	**4.7 J**	< 9.7 UJ	< 9.7 UJ	**7.9 J**	< 19.0 UJ	< 9.7 UJ	**25.0 J**	< 9.7 UJ	**9.2 J**	< 9.7	< 9.7	< 19.0 UJ	< 9.7 UJ	< 19.0	< 9.7 UJ
		2004 04 (Winter)	**4.0 J**	< 9.7	< 9.7	**3.8 J**	< 19.0	< 9.7	< 9.7	< 9.7	**3.6 J**	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	**7.2**	< 9.4	< 9.4	**5.4 J**	< 19.0	< 9.4	< 9.4	< 9.4	**20.0**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	**1.5 J**
		2004 01 (Spring)	**7.2 J**	< 9.4	< 9.4	**5.0 J**	< 19.0	< 9.4	< 9.4	< 9.4	**11.0**	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 04 (Winter)	**5.1 J**	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	**12.0**	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 03 (Fall)	**5.1 J**	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	**8.9 J**	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	**6.2 J**	< 9.5	< 9.5	**5.4 J**	< 19.0 UJ	< 9.5	< 9.5	< 9.5	**12.0**	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 01 (Spring)	**4.5 J**	< 9.5 UJ	< 9.5 UJ	**5.2 J**	< 19.0 UJ	< 9.5 UJ	< 9.5 UJ	< 9.5 UJ	**10.0 J**	< 9.5 UJ	< 9.5 UJ	< 19.0 UJ	< 9.5 UJ	< 19.0 UJ	**0.95 J**
		2002 04 (Winter)	**7.5 J**	< 9.5	< 9.5	**7.3 J**	< 19.0	< 9.5	< 9.5	< 9.5	**13.0**	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M039-A	2002 03 (Fall)	**3.0 J**	< 9.4	< 9.4	**3.9 J**	< 19.0 UJ	< 9.4	< 9.4	< 9.4	**3.0 J**	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	**2.7 J**	< 9.5	< 9.5	**4.4 J**	< 19.0	< 9.5	< 9.5	< 9.5	**0.74 J**	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
SWBZ	M010-B	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6 UJ	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 J	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M012-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M013-C	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4 J	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
		2003 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 50.0	< 9.9	< 50.0	< 9.9

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	***600***	**NA**	***5.0***	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
SWBZ	M013-C	2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M014-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M016-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M020-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2005 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: *Semivolatile Organic Compounds*

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-*Dichlorobenzene*	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M020-B	2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6 UJ
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 UJ	< 9.4
		2002 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
	M021-C	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0 J	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7 UJ
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7 UJ	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 02 (Summer)	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 20.0	< 10.0
	M023-B	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	**4.3 J**	< 9.5
		2003 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 48.0	< 9.7	< 48.0	< 9.7
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0 UJ	< 9.7
		2002 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
	M023-C	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-*Dichlorobenzene*	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-*Methylphenol (o-Cresol)*	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**600**	**NA**	**5.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
SWBZ	M023-C	2005 02 (Summer)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 20.0	< 9.8
		2004 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2003 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 48.0	< 9.6
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 UJ	< 9.6	< 19.0 UJ	< 9.6
		2002 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
	M036-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ	< 19.0 UJ	< 9.4 UJ
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 J	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0 J	< 9.6	< 19.0 J	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ
	M037-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 02 (Summer)	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 9.7	< 19.0	< 9.7	< 19.0	< 9.7
		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2004 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6 J	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0 J	< 9.6
		2003 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
		2003 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4

Legend

Result *exceeds Maximum* Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M037-B	2002 02 (Summer)	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ	< 20.0 UJ	< 9.9 UJ
SWBZ	M038-B	2006 01 (Spring)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
SWBZ		2005 02 (Summer)	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ	< 19.0 UJ	< 9.6 UJ
SWBZ		2004 04 (Winter)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0	< 9.9	< 20.0	< 9.9
SWBZ		2004 02 (Summer)	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0 J	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 9.9	< 20.0 J	< 9.9	< 20.0	< 9.9
SWBZ		2003 04 (Winter)	< 9.8	< 9.8	< 9.8	< 9.8	< 20.0	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 9.8	< 49.0	< 9.8	< 49.0	< 9.8
SWBZ		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
SWBZ		2002 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
SWBZ		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
SWBZ	M039-B	2006 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
SWBZ		2005 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
SWBZ		2004 04 (Winter)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
SWBZ		2004 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0 J	< 9.4
SWBZ		2003 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 47.0	< 9.5	< 47.0	< 9.5
SWBZ		2003 02 (Summer)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 47.0	< 9.4
SWBZ		2002 04 (Winter)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
SWBZ		2002 02 (Summer)	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)		< 1.9	< 1.9	< 0.68	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)		< 0.98 UJ	< 2.0 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.20 UJ	< 0.20 UJ	< 0.10 UJ	< 0.10 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 0.10 UJ	< 0.98 UJ	< 0.10 UJ	< 0.10 UJ
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 03 (Fall)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M011-A	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)		< 0.99	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.99	< 0.10	**0.050 J**
		2005 01 (Spring)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)		< 2.0	< 2.0	< 0.70	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.60	< 0.30

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M011-A	2003 01 (Spring)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2002 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	**0.16**
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	**0.16**
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	**0.040 J**
	M012-A	2006 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 0.99	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.99	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)	< 2.0	< 2.0	< 0.70	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.60	< 0.30
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 03 (Fall)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2002 02 (Summer)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
	M013-A	2006 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 01 (Spring)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, *Alameda Point, Alameda, California*

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M013-A	2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 04 (Winter)	< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 0.20	< 2.0	< 0.59	< 0.29
		2003 03 (Fall)	< 1.9	< 1.9	< 0.68	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 01 (Spring)	< 0.99	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.99	< 0.10	< 0.10
		2002 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
	M014-A	2006 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 01 (Spring)	< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.59	< 0.29
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)	< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.59	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
	M016-A	2006 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.020 J**	< 0.19	< 0.10	< 0.95	< 0.10	**0.050 J**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	*Fluorene*	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**0.20**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	*M016-A*	*2005 02 (Summer)*	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	**0.060 J**
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.56	< 0.28
		2003 03 (Fall)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 04 (Winter)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	**0.16**
		2002 02 (Summer)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	**0.050 J**
	M016-E	*2005 02 (Summer)*	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 04 (Winter)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-E	2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
	M017-A	2006 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 04 (Winter)	< 2.0	< 2.0	< 0.70	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 0.20	< 2.0	< 0.60	< 0.30
		2003 03 (Fall)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M018-A	2006 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: *Detected analyte*

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-A	2003 03 (Fall)	< 1.9	< 1.9	< 0.68	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 01 (Spring)	< 0.94 UJ	< 1.9 UJ	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19 UJ	< 0.090	< 0.94 UJ	< 0.090	< 0.090
		2002 04 (Winter)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2002 03 (Fall)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2002 02 (Summer)	< 0.94 UJ	< 1.9 UJ	< 0.090	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.94	< 0.090	< 0.090
	M018-E	2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2002 04 (Winter)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M019-A	2006 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 02 (Summer)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2005 01 (Spring)	< 0.95 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.56	< 0.28
		2003 03 (Fall)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M019-A	2003 01 (Spring)	< 0.96 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.96 UJ	< 0.10 UJ	< 0.10 UJ
		2002 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
	M019-E	2005 02 (Summer)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2003 04 (Winter)	< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 0.20	< 2.0	< 0.59	< 0.30
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2002 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M020-A	2006 01 (Spring)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 01 (Spring)	< 0.95 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)	< 0.98	< 2.0	< 0.10	**0.050 J**	< 0.10	< 0.20	< 0.20	**0.040 J**	**0.050 J**	< 0.20	**0.12 J**	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 01 (Spring)	< 1.9	< 1.9	< 0.68	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 04 (Winter)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19 UJ	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	**2.8**	< 0.58	< 0.29 UJ
		2003 03 (Fall)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 01 (Spring)	< 0.99	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.99	< 0.10	< 0.10
		2002 04 (Winter)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-A	2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 01 (Spring)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 03 (Fall)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
	M021-E	2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 01 (Spring)		< 0.97 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.97 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 04 (Winter)		< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20 UJ	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.59	< 0.29 UJ
		2003 03 (Fall)		< 1.9	< 1.9	< 0.68	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)		< 2.0	< 2.0	< 0.70	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.60	< 0.30
		2003 01 (Spring)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 03 (Fall)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M022-A	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.040 J**	< 0.19	< 0.10	**2.6**	< 0.10	**0.070 J**
		2005 02 (Summer)		< 0.95	< 1.9	< 0.10	-	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	**2.2**	< 0.10	-
		2005 01 (Spring)		< 0.96 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.96 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)		< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2004 02 (Summer)		< 0.94	< 1.9	< 0.090	**0.060 J**	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M022-A	2004 01 (Spring)		< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.59	< 0.29
		2003 04 (Winter)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19 UJ	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29 UJ
		2003 03 (Fall)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 01 (Spring)		< 0.99	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.99	< 0.10	**0.16**
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 03 (Fall)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M022-E	2005 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 01 (Spring)		< 0.95 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ
		2004 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 01 (Spring)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)		< 1.9	< 1.9	< 0.68	< 0.090	< 0.090	< 0.19	< 0.19 UJ	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	**7.5**	< 0.58	< 0.29 UJ
		2003 03 (Fall)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 01 (Spring)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 03 (Fall)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M023-A	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.030 J**	< 0.19	< 0.10	**1.1**	< 0.10	**0.080 J**
		2005 02 (Summer)		< 1.1	< 2.1	< 0.11	< 0.11	< 0.11	< 0.21	< 0.21	< 0.11	< 0.11	< 0.21	< 0.21	< 0.21	< 0.11	< 1.1	< 0.11	-
		2005 01 (Spring)		< 0.95 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs															
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-A	2004 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 04 (Winter)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19 UJ	< 0.090	< 0.19	< 0.19	< 0.19	< 0.48	< 0.19	< 1.9	< 0.58	< 0.29 UJ
		2003 03 (Fall)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)		< 1.0	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 1.0	< 0.10	**0.15**
		2002 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	**0.13**
		2002 03 (Fall)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	**0.080 J**
	M023-E	2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	-
		2005 01 (Spring)		< 0.95 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)		**0.76 J**	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	**0.11**	**0.11**
		2004 01 (Spring)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	**0.051 J**	< 0.28
		2003 04 (Winter)		**0.60 J**	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 02 (Summer)		< 2.0	< 2.0	< 0.71	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.61	< 0.31
		2003 01 (Spring)		**1.3 J**	< 1.9 UJ	< 0.090	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.94 UJ	**0.19 J**	< 0.090
		2002 04 (Winter)		**1.3**	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2002 03 (Fall)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	**0.16**	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	**0.070 J**	< 0.090

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-A	2006 01 (Spring)	2.3	3.4	0.060 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.42	1.6	< 0.10	< 0.96	0.10	0.070 J
		2005 02 (Summer)	3.4	< 1.9	0.080 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.23	1.5	< 0.10	< 0.95	1.2	0.080 J
		2005 01 (Spring)	< 0.97 UJ	< 1.9 UJ	0.080 J	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	2.4 J	< 0.10 UJ	< 0.97 UJ	0.43 J	0.090 J
		2004 04 (Winter)	30.0 J	< 2.0	0.18	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.16 J	2.3	< 0.10	0.94 J	0.71	0.090 J
		2004 02 (Summer)	24.0	< 1.9	0.10	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	1.9	< 0.090	< 0.94	1.0	< 0.090
		2004 01 (Spring)	16.0	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	0.17 J	1.5	< 0.19	< 1.9	0.49 J	< 0.28
		2003 04 (Winter)	10.0	< 1.9	0.27 J	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	0.46	2.0	< 0.19	< 1.9	0.39 J	0.11 J
		2003 03 (Fall)	3.6	< 1.9	0.14 J	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	1.7	< 0.19	< 1.9	0.66	< 0.29
		2003 02 (Summer)	4.0	< 2.0	0.39 J	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	1.9	< 0.20	< 2.0	0.99	< 0.31
		2003 01 (Spring)	22.0 J	< 1.9 UJ	0.21 J	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	0.35 J	2.0 J	< 0.090	< 0.94 UJ	0.43 J	0.19 J
		2002 04 (Winter)	11.0 J	< 1.9	0.16	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.36 J	1.7	< 0.10	< 0.95	0.52	0.17 J
		2002 03 (Fall)	19.0	< 1.9	0.20	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.40	1.9	< 0.090	< 0.94	0.97	0.17
		2002 02 (Summer)	8.1	< 1.9	0.31	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.20	1.7	< 0.10	< 0.95	0.82	0.10 J
	M024-E	2006 01 (Spring)	2.2	< 1.9	0.020 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.050 J	< 0.19	< 0.10	< 0.96	0.080 J	0.050 J
		2005 02 (Summer)	2.6	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	0.040 J
		2005 01 (Spring)	2.5 J	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)	< 0.97	< 1.9	0.080 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 01 (Spring)	0.92 J	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 04 (Winter)	0.94 J	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 03 (Fall)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)	< 2.0	< 2.0	< 0.70	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.60	< 0.30

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs															
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2003 01 (Spring)		< 0.94 UJ	< 1.9 UJ	**0.15 J**	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	**0.20 J**	< 0.19 UJ	< 0.090	< 0.94 UJ	< 0.090	< 0.090
		2002 04 (Winter)		**1.9**	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2002 03 (Fall)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M036-A	2006 01 (Spring)		**16.0**	< 1.9	**0.31**	**0.010 J**	< 0.10	**0.020 J**	< 0.19	< 0.10	**0.020 J**	< 0.19	**0.54**	**5.1**	< 0.10	**0.79 J**	**0.050 J**	**0.19**
		2005 02 (Summer)		**12.0**	< 1.9	**0.29 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.030 J**	**4.4**	< 0.090	< 0.94	< 0.090	-
		2005 01 (Spring)		**10.0**	< 1.9	**0.28**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.28**	**3.5**	< 0.090	**0.76 J**	**0.33**	**0.18**
		2004 04 (Winter)		**18.0**	< 2.2	**0.31**	< 0.11	< 0.11	< 0.22	< 0.22	< 0.11	< 0.11	< 0.22	**0.26**	**4.9**	< 0.11	< 1.1	< 0.11	**0.16**
		2004 02 (Summer)		**10.0**	< 1.9	**0.29**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.37**	**4.1**	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)		**16.0**	< 1.9	**0.20 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**0.51**	**4.4**	< 0.19	< 1.9	**0.13 J**	< 0.28
		2003 04 (Winter)		**12.0**	< 1.9	**0.28 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**0.60**	**3.5 J**	< 0.19	< 1.9	**0.17 J**	**0.36**
		2003 03 (Fall)		**10.0**	< 1.9	**0.21 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	**3.7**	< 0.19	< 1.9	< 0.56	< 0.28 UJ
		2003 02 (Summer)		**11.0**	< 1.9	**0.26 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**0.46**	**4.0**	< 0.19	< 1.9	**0.14 J**	< 0.28
		2003 01 (Spring)		**15.0 J**	< 1.9 UJ	**0.38 J**	< 0.090	**0.12 J**	< 0.19 UJ	< 0.19 UJ	**0.090 J**	**0.12 J**	< 0.19 UJ	**0.47 J**	**4.4 J**	< 0.090	< 0.94 UJ	**0.21 J**	**0.27 J**
		2002 04 (Winter)		**12.0**	< 1.9	**0.27**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.41 J**	**2.1**	< 0.090	**1.3 J**	**0.19**	**0.21**
		2002 03 (Fall)		**7.9**	< 1.9	**0.24**	< 0.090	**0.10 J**	< 0.19	< 0.19	**0.11 J**	< 0.090	< 0.19	**0.42**	**1.2**	< 0.090	< 0.94	**0.33 J**	**0.20**
		2002 02 (Summer)		**5.3**	< 1.9	**0.16**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.21**	**3.0**	< 0.090	< 0.94	**0.12**	**0.11**
	M036-E	2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	-	< 0.19	< 0.10	< 0.95	**0.11**	-
		2005 01 (Spring)		< 0.95	< 1.9	**0.070 J**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.030 J**	< 0.19	< 0.10	< 0.95	**0.12**	**0.080 J**
		2004 04 (Winter)		< 0.95	< 1.9	**0.080 J**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.060 J**	< 0.19	< 0.10	< 0.95	**0.19**	**0.080 J**
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.13 J**	< 0.19	< 0.10	< 0.95	**0.14**	**0.13**
		2004 01 (Spring)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	**0.081 J**	< 0.28

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-E	2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	**0.12 J**	< 0.28
		2003 03 (Fall)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	**0.11 J**	< 0.29
		2003 01 (Spring)	< 0.94 UJ	< 1.9 UJ	**0.13 J**	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	**0.21 J**	< 0.19 UJ	< 0.090	< 0.94 UJ	**0.27 J**	**0.15 J**
		2002 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.31**	< 0.19	< 0.090	< 0.94	**0.22**	**0.16**
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.34**	< 0.19	< 0.090	< 0.94	**0.22**	**0.19**
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.12 J**	< 0.19	< 0.090	< 0.94	**0.12**	**0.070 J**
	M037-A	2006 01 (Spring)	**2.6**	**2.7**	**0.43**	**0.020 J**	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**1.1**	< 0.19	< 0.10	**2.0**	**0.80**	**0.49**
		2005 02 (Summer)	**1.6**	< 1.9	**0.58**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**1.2**	**0.41**	< 0.10	**2.0**	**0.46**	**0.52 J**
		2005 01 (Spring)	< 0.98	< 2.0	**0.64**	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	**1.2**	**0.080 J**	< 0.10	**3.5**	**1.5**	**0.74**
		2004 04 (Winter)	**4.0**	< 2.0	**0.65**	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	**1.2**	**0.42**	< 0.10	**6.0**	**0.81**	**0.78**
		2004 02 (Summer)	**2.2**	< 1.9	**0.50**	< 0.090	< 0.090	< 0.19	< 0.19	**0.060 J**	**0.090**	< 0.19	**0.90**	< 0.19	< 0.090	< 0.94	**0.30**	**0.59**
		2004 01 (Spring)	**4.8**	< 1.9	**0.36 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**1.4**	**0.32**	< 0.19	< 1.9	**0.36 J**	**0.59**
		2003 04 (Winter)	< 1.9	< 1.9	**0.64 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**1.9**	< 0.19 UJ	< 0.19	< 1.9	< 0.58	**0.50**
		2003 03 (Fall)	**0.96 J**	< 1.9	**0.54 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**1.3**	**0.45**	< 0.19	< 1.9	**0.93**	**0.54 J**
		2003 02 (Summer)	**1.3 J**	< 1.9	**0.89**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**1.3**	**0.46**	< 0.19	< 1.9	**1.3**	**0.57**
		2003 01 (Spring)	**2.8 J**	< 1.9 UJ	**0.45 J**	< 0.090	< 0.090	**0.18 J**	< 0.19 UJ	< 0.090	**0.13 J**	< 0.19 UJ	**0.81 J**	< 0.19 UJ	**0.15 J**	**5.9 J**	**0.33 J**	**0.55 J**
		2002 04 (Winter)	**4.9**	< 2.0	**0.82**	**0.15**	< 0.10	< 0.20	< 0.20	< 0.10	**0.14**	< 0.20	**1.6 J**	**0.80**	< 0.10	**7.0**	**2.1**	**0.97**
		2002 03 (Fall)	< 0.94	< 1.9	**0.45**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.89 J**	< 0.19	< 0.090	**5.5**	**0.49 J**	**0.62**
		2002 02 (Summer)	**0.95**	< 1.9	**0.57**	**0.090 J**	< 0.090	< 0.19	< 0.19	< 0.090	**0.090 J**	< 0.19	**1.3**	**0.33**	< 0.090	**1.9**	**1.1**	**1.1**
	M037-E	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	**0.020 J**	**0.090 J**
		2005 01 (Spring)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.010 J**	< 0.19	< 0.10	< 0.97	**0.10**	**0.090 J**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, *Alameda Point, Alameda, California*

				PAHs																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	*M037-E*	*2004 04 (Winter)*		< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.030 J**	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2004 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 01 (Spring)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	**0.068 J**	< 0.29
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 01 (Spring)		< 0.94 UJ	< 1.9 UJ	< 0.090	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	**0.19 J**	< 0.19 UJ	< 0.090	< 0.94 UJ	**0.19 J**	**0.14 J**
		2002 04 (Winter)		< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	**0.19**	**0.17**
		2002 03 (Fall)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	**0.18**
		2002 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10 UJ	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	**0.060 J**
	M038-A	2006 01 (Spring)		< 0.95	**1.0 J**	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.30**	< 0.19	< 0.10	< 0.95	**0.45**	**0.080 J**
		2005 02 (Summer)		< 0.96	< 1.9	< 0.10	**0.0080 J**	**0.090 J**	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.10 J**	< 0.19	< 0.10	**1.3**	**0.020 J**	**0.030 J**
		2005 01 (Spring)		< 0.95	< 1.9	**0.080 J**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.050 J**	< 0.19	< 0.10	< 0.95	< 0.10	**0.080 J**
		2004 04 (Winter)		< 1.0	< 2.0	**0.080 J**	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	**0.070 J**	< 0.20	**0.050 J**	< 0.20	< 0.10	**2.4**	**0.19**	**0.060 J**
		2004 02 (Summer)		< 1.3	< 2.5	< 0.13	< 0.13	< 0.13	< 0.25	< 0.25	< 0.13	< 0.13	< 0.25	**0.10 J**	< 0.25	< 0.13	< 1.3	< 0.13	**0.10 J**
		2004 01 (Spring)		< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.59	< 0.29
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	**0.23 J**	< 0.19	< 1.9	< 0.57	< 0.28
		2003 03 (Fall)		< 2.0 UJ	< 2.0 UJ	< 0.70 UJ	< 0.10 UJ	< 0.10 UJ	< 0.20 UJ	< 0.20 UJ	< 0.10 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 2.0 UJ	< 0.60 UJ	< 0.30 UJ
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	**0.21**	< 0.19	< 1.9	**0.29 J**	< 0.28
		2003 01 (Spring)		< 0.94 UJ	< 1.9 UJ	< 0.090	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	**0.22 J**	< 0.19 UJ	< 0.090	**2.2 J**	< 0.090	< 0.090
		2002 04 (Winter)		< 0.94	< 1.9	**0.16**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	**3.9**	< 0.090	**0.18**
	M038-E	2005 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.040 J**	**0.030 J**	< 0.10	< 0.96	**0.14**	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, *Alameda Point, Alameda, California*

				PAHs															
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	*M038-E*	*2005 01 (Spring)*		< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	**0.15**	**0.060 J**
		2004 04 (Winter)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	**0.040 J**	< 0.20	< 0.10	< 0.98	**0.24 J**	**0.060 J**
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	**0.14**	**0.10**
		2004 01 (Spring)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	**0.16 J**	< 0.28
		2003 04 (Winter)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	**0.16 J**	< 0.29
		2003 03 (Fall)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)		< 1.0 UJ	< 2.0 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.20 UJ	< 0.20 UJ	< 0.10 UJ	< 0.10 UJ	< 0.20 UJ	< 0.20 UJ	< 0.20 UJ	< 0.10 UJ	**0.89 J**	**0.21 J**	< 0.10 UJ
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	**0.25**	**0.15 J**
		2002 03 (Fall)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.33**	< 0.19	< 0.10	< 0.96	**0.23**	**0.17**
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	**0.14**	**0.070 J**
	M039-A	2006 01 (Spring)		**22.0**	< 1.9	**0.21**	**0.010 J**	< 0.10	**0.020 J**	< 0.19	< 0.10	**0.040 J**	< 0.19	**0.36**	**7.8**	< 0.10	**58.0**	**1.8**	**0.17**
		2005 02 (Summer)		**13.0**	< 1.9	**0.27**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.40**	**5.6**	< 0.10	**90.0**	< 0.10	
		2005 01 (Spring)		**17.0**	< 1.9	**0.44**	**0.020 J**	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.48**	**9.2**	< 0.10	**180**	**4.5**	**0.25**
		2004 04 (Winter)		< 0.97	< 1.9	**0.36**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.44 J**	**4.6**	< 0.10	**25.0**	**1.6**	**0.21 J**
		2004 02 (Summer)		**11.0**	< 1.9	**0.24**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.38**	**5.2**	< 0.10	**130**	**1.4**	**0.19**
		2004 01 (Spring)		**19.0**	< 1.9	**0.19 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**0.47**	**7.2**	< 0.19	**59.0**	**1.5**	< 0.28
		2003 04 (Winter)		**12.0**	**14.0**	**0.33 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**0.89**	**6.0 J**	< 0.19	**160**	**1.6**	**0.36**
		2003 03 (Fall)		**6.4**	< 1.9	**0.27 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**0.83**	**4.0**	< 0.19	**49.0**	**0.98**	**0.31 J**
		2003 02 (Summer)		**7.1**	< 1.9	**0.23 J**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	**3.6**	< 0.19	**73.0**	**0.61**	< 0.28
		2003 01 (Spring)		**16.0 J**	< 1.9 UJ	**0.46 J**	< 0.090	< 0.090	< 0.19 UJ	< 0.19 UJ	< 0.090	< 0.090	< 0.19 UJ	**0.73 J**	**5.3 J**	< 0.090	**130 J**	**1.1 J**	**0.36 J**
		2002 04 (Winter)		**16.0**	< 1.9	**0.29**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	**0.14**	< 0.19	**0.55**	**6.6**	< 0.10	**100**	**2.8**	**0.26**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, *Alameda Point, Alameda, California*

				PAHs																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M039-A	2002 03 (Fall)		**5.3 J**	< 2.0 UJ	**0.31 J**	< 0.10 UJ	< 0.10 UJ	< 0.20 UJ	< 0.20 UJ	< 0.10 UJ	< 0.10 UJ	< 0.20 UJ	**0.64 J**	**2.8 J**	< 0.10 UJ	**14.0 J**	**0.92 J**	**0.30 J**
		2002 02 (Summer)		**4.2**	< 1.9	**0.21**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.43**	**3.6**	< 0.090	< 0.94	**0.70**	**0.21**
	M010-B	2006 01 (Spring)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 02 (Summer)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2002 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
SWBZ	M012-B	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
	M013-C	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	*Fluorene*	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	*M013-C*	*2003 04 (Winter)*	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2002 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 1.0	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 1.0	< 0.10	< 0.10
	M014-B	*2006 01 (Spring)*	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2002 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2002 02 (Summer)	< 0.99	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.99	< 0.10	< 0.10
	M016-B	*2006 01 (Spring)*	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2002 04 (Winter)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M020-B	2006 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 02 (Summer)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	*Chrysene*	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M020-B	2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2003 04 (Winter)	< 1.9	< 1.9	< 0.68	< 0.090	< 0.090	< 0.19	< 0.19 UJ	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	**1.3 J**	< 0.58	< 0.29 UJ
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2002 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M021-C	2006 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19 UJ	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	**2.0**	< 0.58	< 0.29 UJ
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2002 04 (Winter)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2002 02 (Summer)	< 1.0	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 1.0	< 0.10	< 0.10
	M023-B	2006 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 02 (Summer)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2002 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M023-C	2006 01 (Spring)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2005 02 (Summer)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)		< 2.1	< 2.1	< 0.72	< 0.10	< 0.10	< 0.21	< 0.21	< 0.10	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 2.1	< 0.62	< 0.31
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M036-B	2006 01 (Spring)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.56	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M037-B	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2003 04 (Winter)		< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.58	< 0.29
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-5

Groundwater Sample Analytical Results at IR Site 2: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs																
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	*Benzo(a)pyrene*	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	*Pyrene*
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M037-B	2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10 UJ	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
	M038-B	2006 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 02 (Summer)		< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.56	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	**0.13**	< 0.090	**0.25**	**0.27**	**0.13**	**0.15**	**0.37**	< 0.19	< 0.19	**0.21**	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
	M039-B	2006 01 (Spring)		< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2005 02 (Summer)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 04 (Winter)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19 UJ	< 0.19	< 1.9	< 0.57	< 0.28
		2003 02 (Summer)		< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2002 04 (Winter)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water *Quality Criteria* (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 5 Group: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				PAHs															
				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)		< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.070 J**	< 0.19	< 0.10	**1.8**	**0.14**	**0.040 J**
		2005 02 (Summer)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	**0.16 J**	**0.13**	**0.060 J**
		2005 01 (Spring)		< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	**0.28**	< 0.10
		2004 04 (Winter)		< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.21 J**	< 1.0
		2004 02 (Summer)		< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	**0.25**	**0.090 J**

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-6
Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
442-MW1	*2006 01 (Spring)*		0.37 J	< 5.0	**290**	< 2.0	< 5.0	1.5 J	0.46 J	< 10.0	-	< 3.0	*290*	*< 0.20*	*< 20.0*	*< 20.0*	*< 5.0*	*< 5.0*	*< 5.0*	1.8 J	***58.0***	*< 100*	*590 J*	*33.0 J*	9.4 J	6.5 J	50.0 J	-
	2005 02 (Summer)		0.23 J	5.8	**190**	< 2.0	< 5.0	0.51 J	0.070 J	0.44 J	-	< 3.0	150	< 0.20	4.0 J	0.98 J	0.58 J	< 5.0	0.099 J	1.3 J	< 20.0	< 100	360	33.0	11.0	10.0	170	-
	2005 01 (Spring)		0.70 J	< 5.0	**130**	0.37 J	< 5.0	< 10.0	< 1.0	**16.0**	-	< 3.0	19.0	< 0.46	< 20.0	1.6 J	< 5.0	< 5.0	< 5.0	< 10.0	**70.0**	< 100	46.0 J	19.0	6.2	< 10.0	37.0	-
	2004 04 (Winter)		0.69 J	4.7 J	**310**	< 2.0	< 5.0	0.50 J	0.15 J	1.9 J	-	0.33 J	93.0	< 0.20	4.4 J	0.98 J	< 5.0	< 5.0	< 5.0	2.6 J	**14.0 J**	4.4 J	60.0 J	30.0	8.2	8.2	130	-
	2004 02 (Summer)		0.31 J	5.8	**180**	< 1.0	< 1.0	< 1.0	0.14 J	0.54 J	-	0.081 J	100	< 0.20	4.2 J	1.3	< 1.0	< 1.0	< 1.0	< 1.3	10.0	< 50.0	330	24.0	10.0	12.0	*280*	-
	2004 01 (Spring)		< 5.0	< 50.0	**565**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	120	**0.32 J**	< 50.0	< 20.0	< 20.0	< 10.0 UJ	< 10.0	< 50.0	8.4 J	< 200	255	41.2	14.6	13.5 J	273	-
	2003 04 (Winter)		< 5.0	< 50.0	**441**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	122	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	7.7 J	< 200	123	39.1	10.7	7.6	39.5	-
	2003 03 (Fall)		< 5.0 UJ	6.7 J	**174**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	164	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	596	33.0	14.4	12.7 J	252 J	-
	2003 02 (Summer)		< 50.0	**9.2 J**	**228**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	207 J	< 0.40 UJ	5.3 J	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	774	37.4	13.9	15.2 J	160	-
	2003 01 (Spring)		0.35 J	3.1 J	**520**	< 2.0	< 5.0	< 10.0	< 10.0	0.57 J	-	< 3.0	120	< 0.20	3.3 J	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0 UJ	< 100	300	33.0	13.0	11.0	210	-
	2002 04 (Winter)		0.75 J	< 5.0	**650**	< 2.0	0.094 J	< 10.0	0.16 J	0.98 J	-	0.15 J	100	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 2.0	1.7 J	**33.0 J**	< 100	< 300	35.0	9.1	6.7	30.0	-
	2002 03 (Fall)		0.089 J	6.1	**130**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	-	0.72 J	100	< 0.20	**5.7 J**	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	210	24.0	12.0	14.0	290	-
	2002 02 (Summer)		0.12 J	5.5	**180**	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 10.0 UJ	0.027 J	110	< 0.20	< 20.0	**14.0 J**	1.6 J	< 5.0 UJ	< 2.0	< 10.0	< 20.0	60.0 J	270	24.0	12.0	15.0	300	< 0.010
FWBZ	M011-A	2006 01 (Spring)	0.44 J	< 5.0	70.0	< 2.0	< 5.0	1.3 J	0.45 J	< 10.0	-	< 3.0	790	< 0.20	< 20.0	2.0 J	< 5.0	< 5.0	< 5.0	3.4 J	5.5 J	< 100	700 J	140 J	44.0 J	16.0 J	400 J	-
		2005 02 (Summer)	0.54 J	**13.0**	**280**	< 2.0	< 5.0	2.9 J	3.8	1.3 J	-	0.26 J	**6,500**	< 0.20	**5.9 J**	**8.3 J**	**8.9**	< 5.0	< 5.0	6.0 J	**33.0**	< 100	**12,000**	200	320	74.0	2,800	-
		2005 01 (Spring)	0.57 J	2.6 J	**160**	< 2.0	< 5.0	1.2 J	2.2	*< 10.0*	-	< 3.0	***3,900***	*< 0.20*	2.0 J	4.8 J	< 5.0	< 5.0	**4.5 J**	2.5 J	**12.0 J**	< 100	**5,100**	210	190	37.0	1,400	-
		2004 04 (Winter)	0.54 J	**17.0**	**500**	< 2.0	< 5.0	2.2 J	2.9	3.3 J	-	0.40 J	**8,800**	< 0.20	3.2 J	**8.5 J**	**15.0**	< 5.0	< 5.0	5.2 J	9.2 J	8.3 J	**18,000**	270	360	77.0	3,200	-
		2004 02 (Summer)	0.85 J	< 1.0	**560**	< 1.0	< 1.0	3.0	3.8	**9.1**	-	0.13 J	**9,500**	< 0.20	3.6 J	**13.0**	< 1.0	< 1.0	< 1.0	5.6	< 1.0	5.6 J	**17,000**	300	460	93.0	3,700	-
		2004 01 (Spring)	< 10.0	**9.9 J**	**390**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**6,590**	< 0.40	**12.0 J**	< 20.0	< 20.0	< 10.0	< 10.0	5.6 J	< 20.0	< 200	**14,400**	318	332	76.5 J	2,680	-
		2003 04 (Winter)	< 5.0	**8.6 J**	**442**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**6,790**	< 0.40	< 50.0	< 20.0	*< 20.0*	< 10.0	*< 5.0 UJ*	*< 50.0*	*< 20.0*	*< 200*	***15,100***	*305*	323	*80.2*	*2,670*	-
		2003 03 (Fall)	< 25.0 UJ	**18.9 J**	**844**	< 4.0	0.67 J	1.4 J	3.0 J	< 10.0	-	< 10.0	**10,700 J**	< 0.40	5.4 J	**9.9 J**	< 20.0	< 10.0	< 50.0	4.4 J	< 20.0	< 200	**27,100 J**	**439 J**	549 J	110 J	3,610 J	-
		2003 02 (Summer)	< 50.0	**11.5 J**	**541**	< 4.0	< 5.0	< 10.0	3.3 J	< 10.0	-	< 10.0	**7,290**	< 0.40	< 50.0	5.2 J	< 20.0	< 10.0	< 5.0	3.1 J	< 20.0	< 200	**19,700**	275	362	87.0 J	2,410	-
		2003 01 (Spring)	< 1.0	5.7	**270**	< 2.0	< 5.0	2.3 J	< 10.0	< 10.0	-	< 3.0	**3,800**	< 0.20	3.5 J	6.4 J	< 5.0	< 5.0	< 1.0	6.2 J	< 20.0	< 100	**14,000**	200	190	49.0	1,700	-
		2002 04 (Winter)	0.49 J	**17.0**	< 420 UJ	< 2.0	< 5.0	2.4 J	2.7 J	1.4 J	-	< 3.0	**5,800 J**	< 0.20	3.9 J	**7.5 J**	**23.0**	< 5.0	< 2.0	4.7 J	< 20.0	< 100	**19,000**	200 J	270 J	66.0 J	2,200	-
		2002 03 (Fall)	0.66 J	< 5.0	**440**	< 2.0	< 5.0	< 10.0	2.0 J	5.5 J	-	0.45 J	**6,000**	< 0.20	4.0 J	**8.7 J**	< 5.0	< 5.0	< 2.0	4.3 J	< 20.0	< 100	**15,000**	240	310	77.0	2,800	-
		2002 02 (Summer)	0.91 J	7.5	**320**	< 2.0	< 5.0	**6.6 J**	1.9 J	1.7 J	< 10.0	< 3.0	**4,200**	**0.13 J**	5.3 J	6.0 J	< 5.0	< 5.0	< 2.0	**9.0 J**	< 20.0	**400 J**	**13,000**	210	240	61.0	2,300	< 0.010
	M012-A	2006 01 (Spring)	0.18 J	6.0	15.0	< 2.0	< 5.0	1.5 J	0.79 J	1.8 J	-	< 3.0	110	< 0.20	1.5 J	4.2 J	1.7 J	< 5.0	< 5.0	5.0 J	< 20.0	< 100	1,100	1.3	2.4	3.7	75.0	-
		2005 02 (Summer)	0.18 J	5.8	61.0	< 2.0	< 5.0	0.91 J	0.38 J	1.3 J	-	< 3.0	130	< 0.20	**8.9 J**	4.3 J	0.60 J	< 5.0	< 5.0	0.84 J	< 20.0	17.0 J	180	5.5	7.2	9.1	270	-
		2005 01 (Spring)	0.28 J	< 5.0	14.0	< 2.0	< 5.0	< 10.0	0.73 J	**9.5 J**	-	< 3.0	120	< 0.46	< 20.0	7.1 J	< 5.0	< 5.0	< 5.0	2.2 J	**13.0 J**	< 100	1,200	2.1	3.5	2.3 J	59.0	-
		2004 04 (Winter)	0.21 J	6.0	40.0	< 2.0	< 5.0	0.64 J	0.29 J	1.3 J	-	0.35 J	70.0	< 0.20	**6.2 J**	4.3 J	1.1 J	< 5.0	< 5.0	1.5 J	4.2 J	24.0 J	61.0 J	3.2	5.3	7.9	280	-
		2004 02 (Summer)	*0.14 J*	*< 2.7*	*46.0*	*< 1.0*	*< 1.0*	*< 1.0*	*1.4*	*1.1*	-	0.58 J	160	< 0.20	4.4 J	**8.8**	< 1.0	< 1.0	0.27 J	< 1.1	**12.0**	12.0 J	970	3.1	4.8	7.3	170	-
		2004 01 (Spring)	< 5.0	4.7 J	60.9 J	< 4.0	< 5.0	< 10.0	**7.5 J**	< 10.0	-	< 10.0	481	< 0.40	< 50.0	**31.0**	< 20.0	< 10.0	< 10.0	< 50.0	5.8 J	**388**	**5,750**	5.8	9.0	6.3 J	37.3	-
		2003 04 (Winter)	< 5.0	4.3 J	25.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	55.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	**11.1 J**	< 200	141	2.0	3.3	< 4.2	150	-
		2003 03 (Fall)	< 5.0 UJ	< 50.0	53.3 J	< 4.0	< 5.0	1.2 J	< 10.0	< 10.0	-	< 10.0	145 J	< 0.40	**6.7 J**	5.4 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	54.8 J	462 J	4.0 J	6.5 J	12.0 J	186 J	-
		2003 02 (Summer)	< 50.0	< 50.0	58.7 J	< 4.0	< 5.0	< 10.0	2.8 J	< 10.0	-	< 10.0	389 J	*< 0.40 UJ*	< 50.0	***10.7 J***	*< 20.0*	*< 10.0*	*< 5.0*	*< 50.0*	*< 20.0*	*< 200*	**3,530**	4.5	7.3	7.9 J	*102*	-
		2002 04 (Winter)	0.19 J	3.8 J	46.0 J	< 2.0	< 5.0	< 10.0 UJ	0.49 J	1.2 J	-	0.32 J	83.0	< 0.20	< 20.0 UJ	4.8 J	0.85 J	< 5.0	< 2.0	3.0 J	6.4 J	96.0 J	340 J	3.5	5.1	7.6	220	-
		2002 03 (Fall)	0.13 J	< 5.0	45.0	< 2.0	< 5.0	< 10.0	0.63 J	< 10.0	-	< 3.0	110	< 0.20	1.5 J	6.8 J	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	< 100	360	3.3	5.1	7.3	200	-
		2002 02 (Summer)	0.13 J	2.7 J	53.0	< 2.0	< 5.0	0.92 J	1.7 J	0.82 J	< 10.0	< 3.0	170	0.048 J	< 20.0	7.3 J	< 5.0	< 5.0	< 2.0	1.2 J	2.4 J	< 100	980	3.6	6.0	8.3	110	< 0.010

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at *IR Site 2: Dissolved Metals*

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
M013-A	*2006 01 (Spring)*		0.28 J	**12.0**	**160**	< 2.0	< 5.0	1.5 J	< 1.0	2.7 J	-	< 3.0	*0.85 J*	< 0.20	*0.68 J*	*1.0 J*	< 5.0	< 5.0	< 5.0	**17.0**	3.5 J	< 100	< 100	7.9	12.0	8.9	35.0	-
	2005 02 (Summer)		0.39 J	**20.0**	69.0	< 2.0	< 5.0	1.2 J	0.046 J	1.7 J	-	< 3.0	12.0	< 0.20	< 20.0	2.6 J	0.57 J	< 5.0	< 5.0	**30.0**	**47.0**	11.0 J	22.0 J	4.0	5.3	7.2	87.0	-
	2005 01 (Spring)		0.35 J	**17.0**	62.0	< 2.0	< 5.0	1.1 J	< 1.0	< 10.0	-	< 3.0	2.6 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	**26.0**	5.8 J	< 100	20.0 J	3.6	5.5	4.4 J	51.0	-
	2004 04 (Winter)		0.55 J	**9.9**	85.0	< 2.0	< 5.0	1.8 J	< 1.0	2.1 J	-	0.37 J	1.6 J	< 0.20	0.43 J	2.2 J	< 5.0	< 5.0	< 5.0	**19.0**	5.0 J	8.7 J	36.0 J	4.5	5.4	7.6	41.0	-
	2004 02 (Summer)		0.44 J	**16.0**	110	< 1.0	< 1.0	< 1.0	0.082 J	1.7	-	< 1.0	7.3 J	< 0.20	0.52 J	2.7	< 1.0	< 1.0	< 1.0	**24.0**	< 2.2	9.1 J	< 100	5.8	7.9	9.5	49.0	-
	2004 01 (Spring)		< 5.0	**29.1 J**	53.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	5.5 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	**33.1 J**	< 20.0	**124 J**	212	3.1	4.6	6.6 J	62.4	-
	2003 04 (Winter)		< 5.0	**10.1 J**	73.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	< 10.0	< 0.40	< 50.0	**10.9 J**	< 20.0	< 10.0	< 5.0 UJ	**15.7 J**	7.6 J	**135 J**	188	3.9	5.2	8.4	38.5	-
	2003 03 (Fall)		< 5.0 UJ	**9.1 J**	56.1 J	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	-	< 10.0	1.4 J	< 0.40	< 50.0	2.2 J	< 20.0	< 10.0	< 5.0	**29.7 J**	< 20.0	50.1 J	29.7 J	2.9 J	3.7 J	6.3 J	48.5 J	-
	2003 02 (Summer)		< 50.0	**12.3 J**	111	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	-	< 10.0	3.0 J	< 0.40 UJ	< 50.0	2.0 J	< 20.0	< 10.0	< 5.0	**23.9 J**	< 20.0	< 200	< 100	5.5	7.9	9.0 J	43.6	-
	2003 01 (Spring)		< 1.0	**40.0**	27.0	< 2.0	< 5.0	3.3 J	< 10.0	2.5 J	-	< 3.0	9.8 J	< 0.20	0.30 J	6.7 J	< 5.0	< 5.0	< 1.0	**52.0**	3.5 J	**570**	890	1.2	2.1	3.6	51.0	-
	2002 04 (Winter)		0.50 J	**30.0**	37.0 J	0.027 J	< 5.0	< 10.0	0.29 J	1.5 J	-	< 3.0	6.1 J	< 0.20	0.56 J	2.4 J	< 5.0	< 5.0	< 2.0	**35.0**	3.9 J	**160**	190	1.8	2.4	4.9	50.0	-
	2002 03 (Fall)		0.37 J	**13.0**	60.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 3.0	4.1 J	< 0.20	0.58 J	2.1 J	< 5.0	< 5.0	< 2.0	**18.0 J**	< 20.0	**110**	< 130	2.6	3.4	6.9	53.0	-
	2002 02 (Summer)		0.37 J	6.2	110	< 2.0	< 5.0	1.3 J	< 10.0	1.4 J	< 10.0	< 3.0	8.5 J	< 0.20	< 20.0	1.3 J	< 5.0	< 5.0	< 2.0	**11.0**	1.2 J	< 100	34.0 J	4.9	7.6	8.6	50.0	< 0.010
M014-A	2006 01 (Spring)		0.082 J	< 5.0	13.0	< 2.0	< 5.0	2.1 J	0.036 J	< 10.0	-	< 3.0	2.0 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	2.6 J	3.8 J	< 100	< 100	4.8 J	3.3 J	3.0 J	8.0 J	-
	2005 02 (Summer)		< 1.0	0.66 J	14.0	< 2.0	< 5.0	2.0 J	0.044 J	0.69 J	-	< 3.0	8.1 J	< 0.20	< 20.0	1.3 J	0.48 J	< 5.0	< 5.0	2.3 J	**21.0**	1.3 J	36.0 J	5.8	4.4	3.4	14.0	-
	2005 01 (Spring)		*0.34 J*	*2.6 J*	*8.6 J*	*< 2.0*	*< 5.0*	*2.1 J*	*< 1.0*	*< 10.0*	-	< 3.0	*4.6 J*	*< 0.20*	< 20.0	*2.4 J*	< 5.0	< 5.0	< 5.0	*1.5 J*	9.0 J	< 100	23.0 J	3.5	2.5	< 10.0	12.0	-
	2004 04 (Winter)		0.14 J	1.5 J	8.9 J	< 2.0	< 5.0	1.3 J	< 1.0	0.87 J	-	0.25 J	5.1 J	< 0.20	< 20.0	0.84 J	< 5.0	< 5.0	< 5.0	2.1 J	2.4 J	2.7 J	36.0 J	3.7	2.7	2.7	12.0	-
	2004 02 (Summer)		0.16 J	< 2.6	11.0	< 1.0	< 1.0	1.9	< 1.0	0.71 J	-	< 1.0	< 10.0	< 0.20	< 5.0	1.1	< 1.0	< 1.0	< 1.0	< 3.5	5.1	< 50.0	< 100	5.0	3.3	3.4	15.0	-
	2004 01 (Spring)		< 5.0	< 50.0	9.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	70.1 J	4.2	2.8	2.9 J	12.7	-
	2003 04 (Winter)		< 5.0	< 50.0	10.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	< 10.0	< 0.40	< 50.0	*< 20.0*	*< 20.0*	*< 10.0*	*< 5.0 UJ*	*5.2 J*	*< 20.0*	*< 200*	74.9 J	4.1	3.0	< 3.8	14.4	-
	2003 03 (Fall)		< 5.0	< 50.0	9.8 J	< 4.0	< 5.0	1.9 J	< 10.0	< 10.0	-	< 10.0	1.2 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.7 J	2.5 J	< 200	< 100	4.7	3.0	2.6	9.8	-
	2003 02 (Summer)		< 50.0	< 50.0	10.2 J	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	-	< 10.0	2.6 J	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	2.7 J	< 20.0	< 200	< 100	4.8	3.1	2.8 J	13.0	-
	2003 01 (Spring)		< 1.0	< 5.0	9.4 J	< 2.0	< 5.0	2.4 J	< 10.0	< 10.0	-	< 3.0	3.7 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	3.5 J	2.1 J	45.0 J	78.0 J	3.4	2.3	2.8	14.0	-
	2002 04 (Winter)		0.19 J	0.76 J	8.4 J	< 2.0	< 5.0	1.9 J	0.074 J	0.29 J	-	< 3.0	1.5 J	< 0.20	0.44 J	0.61 J	< 5.0	< 5.0	1.9 J	2.7 J	< 20.0	55.0 J	< 100	3.6	2.1	3.2	12.0	-
	2002 03 (Fall)		0.14 J	< 5.0	8.8 J	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 3.0	2.1 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0 UJ	< 20.0	83.0 J	< 130	4.0	2.5	3.3	12.0	-
	2002 02 (Summer)		0.19 J	0.51 J	6.8 J	< 2.0	< 5.0	1.9 J	< 10.0	0.68 J	< 10.0	< 3.0	5.3 J	< 0.20	< 20.0	0.96 J	< 5.0	< 5.0	< 2.0	2.3 J	< 20.0	< 100	39.0 J	2.2	2.0	2.2	19.0	< 0.010
M016-A	2005 02 (Summer)		0.10 J	3.2 J	**130**	< 2.0	< 5.0	2.2 J	2.9	1.0 J	-	< 3.0	**1,400**	< 0.20	< 20.0	5.0 J	**5.7**	< 5.0	< 5.0	1.9 J	**25.0**	5.9 J	**19,000**	260	200	87.0	1,400	-
	2005 01 (Spring)		0.21 J	< 5.0	59.0	< 2.0	< 5.0	1.1 J	3.2	< 10.0	-	< 3.0	**1,200**	< 0.46	< 20.0	1.4 J	< 5.0	< 5.0	< 5.0	0.87 J	5.8 J	< 100	**18,000**	290	270	96.0	1,900	-
	2004 04 (Winter)		0.25 J	**11.0**	**170**	< 2.0	< 5.0	0.99 J	1.3	3.5 J	-	0.22 J	**2,600**	**0.14 J**	1.1 J	5.1 J	**19.0**	< 5.0	0.24 J	0.80 J	**13.0 J**	2.3 J	**25,000**	**610**	860	230	6,300	-
	2004 02 (Summer)		0.18 J	< 1.0	68.0	< 1.0	< 1.0	1.7 J	2.2	2.6	-	0.055 J	1,100	< 0.20	0.80 J	4.3	< 1.0 J	< 5.0	< 1.0	1.4 J	< 20.0	2.8 J	**17,000 J**	290	260	110	2,300	-
	2004 01 (Spring)		*< 10.0*	*< 50.0*	*81.5 J*	*< 4.0*	*< 5.0*	*< 10.0*	*< 10.0*	*< 10.0*	-	< 10.0	**1,890**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**32,300**	**410**	384	161	2,840	-
	2003 04 (Winter)		< 5.0	< 50.0	123	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**1,730**	< 0.40	**15.0 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**23,000**	**444**	665	245	5,490	-
	2003 03 (Fall)		< 25.0 UJ	< 50.0	**184**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**1,720 J**	< 0.40	< 50.0	4.3 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**23,300 J**	**507 J**	689 J	203 J	4,560 J	-
	2003 02 (Summer)		< 50.0	< 50.0	89.4 J	< 4.0	< 5.0	< 10.0	1.7 J	< 10.0	-	< 10.0	**1,260 J**	< 0.40 UJ	< 50.0	3.1 J	< 20.0	< 10.0	< 50.0	1.8 J	< 20.0	< 200	**20,700**	342	252	96.6 J	2,060	-
	2003 01 (Spring)		< 1.0	7.4	58.0	< 2.0	< 5.0	2.5 J	3.9 J	< 10.0	-	< 3.0	**1,300**	*< 0.20*	*0.73 J*	*4.9 J*	*< 5.0*	*< 5.0*	*< 1.0*	*3.8 J*	*1.9 J*	*< 100*	**23,000**	240	220	110	1,700	-
	2002 04 (Winter)		0.13 J	**14.0 J**	**180**	< 2.0	< 5.0	< 10.0	1.5 J	4.7 J	-	0.32 J	**2,200**	< 0.20	< 20.0 UJ	5.6 J	**49.0**	< 5.0	< 2.0	0.84 J	< 20.0	4.6 J	**24,000 J**	**580**	930	260	6,800	-
	2002 03 (Fall)		0.14 J	< 5.0	**160**	< 2.0	< 5.0	< 10.0	1.4 J	< 10.0	-	< 3.0	**1,700**	< 0.20	1.0 J	5.8 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**7,800**	**450**	680	180	5,000	-
	2002 02 (Summer)		0.20 J	4.4 J	91.0	< 2.0	< 5.0	**11.0**	2.3 J	1.5 J	< 10.0	< 3.0	1,100	< 0.20	< 20.0	3.2 J	< 5.0	< 5.0	< 2.0	4.6 J	< 20.0	< 100	**14,000**	230	200	91.0	1,800	< 0.010

FWBZ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Innovative Technical Solutions, Inc.

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
M016-E	*2006 01 (Spring)*		0.24 J	< 5.0	**140**	0.41 J	< 5.0	2.2 J	3.8	< 10.0	-	< 3.0	**2,900**	**0.24**	< 20.0	**8.0 J**	**2.2 J**	< 5.0	< 5.0	1.9 J	**13.0 J**	< 100	**13,000 J**	120 J	340 J	100 J	3,400 J	-
	2005 02 (Summer)		0.57 J	**11.0**	**200**	< 2.0	< 5.0	2.8 J	3.8	2.2 J	-	< 3.0	**3,200**	< 0.20	1.5 J	**9.5 J**	**14.0 J**	< 5.0	< 5.0	2.7 J	**39.0 J**	< 100	**19,000 J**	160	430	130	4,400	-
	2005 01 (Spring)		0.39 J	**11.0**	**140**	< 2.0	< 5.0	2.1 J	3.8	< 10.0	-	< 3.0	**2,400**	< 0.20	< 20.0	**9.2 J**	< 5.0	< 5.0	< 5.0	2.1 J	**12.0 J**	< 100	**13,000**	140	300	110	3,000	-
	2004 04 (Winter)		0.19 J	**19.0**	**350**	< 2.0	< 5.0	1.0 J	1.7	**3.2 J**	-	0.16 J	**4,000**	< 0.20	0.87 J	5.0 J	**13.0**	< 5.0	< 5.0	0.92 J	**15.0 J**	4.9 J	**36,000**	**530**	730	190	5,400	-
	2004 02 (Summer)		0.28 J	< 1.0	**200**	< 1.0	< 1.0	2.6 J	4.4	**4.8**	-	< 1.0	**3,200**	< 0.20 J	1.6	**12.0**	< 1.0 J	< 5.0	< 1.0	3.0 J	< 20.0	2.6 J	**17,000 J**	180	410	130	3,900	-
	2004 01 (Spring)		< 5.0	**16.5 J**	**177**	< 4.0	< 5.0	< 10.0	**5.5 J**	< 10.0	-	< 10.0	**3,090 J**	< 1.0	**11.7 J**	< 20.0	< 20.0	< 10.0	< 10.0	5.1 J	< 20.0	< 200	**19,000 J**	223 J	397	147	3,790 J	-
	2003 04 (Winter)		< 5.0	< 50.0	**251**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**3,640**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**34,300**	**479**	693	246	5,740	-
	2003 03 (Fall)		< 5.0	< 50.0	**445**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**7,190**	< 0.40	< 50.0	2.1 J	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	**56,500**	**761**	768	200	4,350	-
	2003 02 (Summer)		< 50.0	**17.6 J**	**214**	< 4.0	< 5.0	< 10.0	**4.7 J**	< 10.0	-	< 10.0	**3,860 J**	< 0.40 UJ	< 50.0	**9.6 J**	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**21,800**	217	500	138 J	3,930	-
	2003 01 (Spring)		< 1.0	3.2 J	**170 J**	< 2.0	< 5.0	2.5 J	4.6 J	2.2 J	-	< 3.0	**2,800**	< 0.20	1.6 J	**12.0 J**	< 5.0	< 5.0	< 1.0	3.3 J	< 20.0	< 100	**17,000**	160	340	110	3,900	-
	2002 04 (Winter)		0.15 J	**23.0 J**	**280 J**	< 2.0	< 5.0	< 10.0	1.8 J	**4.1 J**	-	0.41 J	**4,800**	< 0.20	< 20.0 UJ	4.5 J	**35.0**	< 5.0	< 2.0	0.76 J	< 20.0	4.5 J	**37,000 J**	**540**	800	190	6,000	-
	2002 03 (Fall)		*0.14 J*	*< 5.0*	***260***	*< 2.0*	*< 5.0*	*< 10.0*	2.1 J	**5.1 J**	-	< 3.0	**6,300**	< 0.20	1.1 J	**8.4 J**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**17,000**	**680**	780	180	4,700	-
	2002 02 (Summer)		0.29 J	**8.5**	91.0	< 2.0	0.25 J	**23.0**	**4.9 J**	1.8 J	< 10.0	< 3.0	**3,300**	< 0.20	< 20.0	**11.0 J**	< 5.0	0.11 J	< 2.0	7.1 J	< 20.0	< 100	980	110	290	130	2,700	< 0.010
M017-A	2006 01 (Spring)		0.44 J	**8.1**	31.0	0.49 J	< 5.0	1.2 J	0.35 J	**12.0**	-	< 3.0	1.2 J	< 0.20	< 20.0	0.99 J	< 5.0	< 5.0	< 5.0	3.5 J	6.7 J	< 100	< 100	220 J	460 J	140 J	3,900 J	-
	2005 02 (Summer)		0.81 J	< 5.0	80.0	< 2.0	< 5.0	0.89 J	0.45 J	**6.6 J**	-	< 3.0	0.52 J	< 0.20	5.2 J	3.9 J	**26.0 J**	< 5.0	< 5.0	3.2 J	**33.0**	< 100	700 J	350	790	240	6,400	-
	2005 01 (Spring)		0.50 J	< 5.0	43.0	< 2.0	< 5.0	< 10.0	0.56 J	**3.8 J**	-	*< 3.0*	*< 10.0*	*< 0.46*	*2.4 J*	*2.5 J*	*< 5.0*	*< 5.0*	*< 5.0*	*2.7 J*	**13.0 J**	< 100	< 100	240	610	190	5,300	-
	2004 04 (Winter)		0.39 J	**10.0**	95.0	< 2.0	< 5.0	1.1 J	0.77 J	**5.5 J**	-	0.086 J	11.0 J	< 0.20	3.5 J	**9.0 J**	**27.0**	< 5.0	< 5.0	3.3 J	**17.0 J**	3.5 J	1,500 J	**390**	990	300	7,600	-
	2004 02 (Summer)		0.41 J	4.7	67.0	< 1.0	< 1.0	1.4	0.94 J	**4.5**	-	0.085 J	< 10.0	< 0.20	4.2 J	4.4	< 1.0 J	< 5.0	< 1.0	5.1	< 20.0	2.3 J	< 100	360	670	260	5,800	-
	2004 01 (Spring)		< 5.0	4.2 J	46.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	**24.7 J**	< 20.0	< 20.0	< 10.0	< 10.0	5.9 J	< 20.0	< 200	< 100	264	655	252 J	6,040	-
	2003 04 (Winter)		2.2 J	< 50.0	64.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	< 10.0	< 0.40	< 50.0	**16.9 J**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	*< 20.0*	*< 200*	*< 100*	*310*	*828*	*360*	*7,740*	-
	2003 03 (Fall)		< 5.0	< 50.0	95.0 J	< 4.0	< 5.0	< 10.0	< 10.0	1.6 J	-	< 10.0	< 10.0	< 0.40	< 50.0	1.8 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**425**	1,040	327	6,800	-
	2003 02 (Summer)		< 50.0	< 50.0	75.6 J	< 4.0	< 5.0	< 10.0	< 10.0	3.0 J	-	< 10.0	< 10.0	< 0.40 UJ	< 50.0	1.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**562**	836	292 J	5,830	-
	2003 01 (Spring)		0.64 J	< 5.0	73.0	< 2.0	< 5.0	1.1 J	< 10.0	**6.5 J**	-	< 3.0	1.4 J	< 0.20	3.5 J	5.0 J	< 5.0	< 5.0	< 1.0	4.6 J	< 20.0	4.7 J	730	340	850	260	7,000	-
	2002 04 (Winter)		0.27 J	**18.0 J**	94.0 J	< 2.0	< 5.0	< 10.0 UJ	1.0 J	**6.2 J**	-	0.47 J	< 10.0	< 0.20	< 20.0 UJ	7.3 J	**67.0**	< 5.0	< 2.0	3.0 J	< 20.0	6.2 J	< 100 UJ	**420**	1,100	330	9,100	-
	2002 03 (Fall)		< 50.0	< 5.0	99.0	< 2.0	< 5.0	< 10.0	0.94 J	< 10.0	-	< 3.0	< 10.0	< 0.20	3.6 J	6.2 J	< 5.0 UJ	< 5.0	< 2.0	1.9 J	< 20.0	< 100	840	370	1,000	290	8,100	-
	2002 02 (Summer)		0.29 J	**13.0**	85.0	< 2.0	< 5.0	**7.6 J**	0.81 J	< 10.0	< 10.0	0.036 J	< 10.0	< 0.20	< 20.0	< 20.0	**52.0 J**	< 5.0	< 2.0	< 10.0	< 20.0	**610**	< 100	330	870	270	6,800	< 0.010
M018-A	2005 02 (Summer)		*0.55 J*	*2.3 J*	91.0	< 2.0	1.0 J	1.0 J	1.2	**8.8 J**	-	< 3.0	510	< 0.20	2.4 J	**14.0 J**	**9.8 J**	< 5.0	< 5.0	5.4 J	**32.0**	< 100	460 J	290	580	170	4,200	-
	2005 01 (Spring)		0.51 J	3.4 J	58.0	< 2.0	**1.6 J**	2.7 J	1.5	3.4 J	-	< 3.0	**1,400**	< 0.46	< 20.0	**19.0 J**	< 5.0	< 5.0	**10.0**	3.7 J	**11.0 J**	< 100	< 100	290	600	180	4,600	-
	2004 04 (Winter)		0.31 J	**9.6**	**130**	< 2.0	**1.5 J**	1.0 J	1.5	6.2 J	-	0.12 J	**2,000**	< 0.20	2.1 J	**18.0 J**	< 5.0	< 5.0	< 5.0	3.5 J	**18.0 J**	4.1 J	**1,700 J**	**510**	1,000	260	5,700	-
	2004 02 (Summer)		< 1.0	7.0	61.0	< 2.0	< 5.0	< 10.0	0.99 J	**4.1 J**	-	0.60 J	570	< 0.20	< 20.0	< 20.0	**18.0**	< 5.0	< 1.0	7.7 J	< 20.0	< 50.0	< 100	290	550	180	4,300	-
	2004 01 (Spring)		< 10.0	< 50.0	54.0 J	< 4.0	< 5.0	*< 10.0*	*< 10.0*	*5.6 J*	-	*< 10.0*	*840*	*< 0.40*	**13.5 J**	**12.4 J**	< 20.0	< 10.0	< 10.0	8.0 J	< 20.0	< 200	< 100	317	628	216	4,530	-
	2003 04 (Winter)		< 5.0	< 50.0	111	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	50.5	< 0.40	< 50.0	**21.5**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	< 100	**402**	835	266	5,120	-
	2003 03 (Fall)		< 5.0	< 50.0	123	< 4.0	< 5.0	< 10.0	< 10.0	**3.9 J**	-	< 10.0	632	< 0.40	< 50.0	**11.2 J**	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	< 100	**469**	1,050	251	5,220	-
	2003 02 (Summer)		< 50.0	< 50.0	88.5 J	< 4.0	< 5.0	< 10.0	< 10.0	**6.0 J**	-	< 10.0	51.8 J	< 0.40 UJ	< 50.0	**10.8 J**	< 20.0	< 10.0	< 50.0	3.1 J	< 20.0	< 200 UJ	< 100	343	657	176 J	3,750	-
	2003 01 (Spring)		1.7	6.3	91.0	< 2.0	1.2 J	1.2 J	1.2 J	**6.2 J**	-	< 3.0	150	< 0.20	2.5 J	**12.0 J**	**16.0 J**	< 5.0	*< 1.0*	*5.5 J*	*< 20.0*	3.2 J	*610*	*290 J*	*550 J*	*160 J*	*4,000*	-
	2002 04 (Winter)		0.18 J	**11.0 J**	**160**	< 2.0	0.60 J	< 10.0	0.97 J	**6.2 J**	-	0.42 J	2.8 J	< 0.20	< 20.0 UJ	**9.0 J**	**37.0**	**5.0 J**	< 2.0	4.5 J	< 20.0	5.9 J	**1,800**	**470**	840	210	5,400	-
	2002 03 (Fall)		0.20 J	6.7	110	< 2.0	0.98 J	< 10.0	1.2 J	**6.0 J**	-	< 3.0	28.0	< 0.20	3.1 J	**13.0 J**	**11.0**	< 5.0	< 2.0	< 10.0	**44.0**	< 100	970	290	550	150	3,800	-
	2002 02 (Summer)		0.24 J	**8.8**	110	< 2.0	< 5.0	**4.9 J**	1.3 J	< 10.0	< 10.0	0.043 J	56.0	< 0.20	< 20.0	< 20.0	**35.0 J**	< 5.0	< 2.0	6.8 J	< 20.0	5.4 J	< 100	220	480	160	3,400	< 0.010

FWBZ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	NA	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M018-E	2006 01 (Spring)		0.17 J	**53.0**	73.0	0.72 J	< 5.0	0.76 J	3.5	< 10.0	-	< 3.0	**16,000**	< 0.20	< 20.0	**12.0 J**	< 5.0	**3.7 J**	< 5.0	< 10.0	< 20.0	< 100	***18,000 J***	***730 J***	1,800 J	330 J	12,000 J	-
	2005 02 (Summer)		0.46 J	6.8	90.0	< 2.0	< 5.0	1.4 J	4.5	**8.6 J**	-	< 3.0	**16,000**	< 0.20	5.5 J	**19.0 J**	**150 J**	< 5.0	< 5.0	1.2 J	**64.0**	< 100	**13,000**	**700**	1,700	370	12,000	-
	2004 04 (Winter)		0.19 J	**41.0**	78.0	< 2.0	< 5.0	1.2 J	4.3	**5.5 J**	-	0.21 J	**14,000**	< 0.20	4.3 J	**25.0**	-	< 5.0	< 5.0	1.4 J	**24.0**	4.5 J	**14,000**	**730**	1,700	400	15,000	-
	2004 02 (Summer)		< 1.0	< 1.0	87.0	0.17 J	< 5.0	< 10.0	3.9	< 10.0	-	**1.6**	**15,000**	< 0.20	< 20.0	**15.0 J**	< 1.0	< 5.0	< 1.0	< 10.0	**12.0 J**	3.7 J	**15,000**	**770**	1,900	440	14,000	-
	2003 04 (Winter)		< 25.0	**26.2 J**	59.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	**10,900**	< 0.40	**13.7 J**	**20.6**	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**9,710**	**719**	1,700	473	12,000	-
	2003 02 (Summer)		< 50.0	< 50.0	75.2 J	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	-	< 10.0	**14,800 J**	< 0.40 UJ	< 50.0	**20.0 J**	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**14,500**	**793**	1,800	454 J	9,700	-
	2002 04 (Winter)		0.15 J	**51.0 J**	82.0	< 2.0	< 5.0	< 10.0	4.0 J	**7.9 J**	-	0.48 J	**14,000**	< 0.20	< 20.0 UJ	**20.0 J**	**95.0**	< 5.0	< 2.0	1.2 J	< 20.0	4.7 J	**16,000**	**740**	1,700	370	12,000	-
	2002 02 (Summer)		0.12 J	**52.0**	73.0	< 2.0	< 5.0	< 10.0	3.5 J	< 10.0	< 10.0	0.063 J	**12,000**	< 0.20	< 20.0	< 20.0	**110 J**	< 5.0	< 2.0	< 10.0	< 20.0	**1,100**	**12,000**	**780**	1,800	350	13,000	< 0.010
M019-A	2005 02 (Summer)		0.59 J	< 5.0	62.0	< 2.0	< 5.0	1.0 J	0.46 J	**6.3 J**	-	< 3.0	0.64 J	< 0.20	**20.0 J**	6.6 J	**18.0 J**	0.082 J	0.19 J	2.5 J	**35.0**	< 100	470	320	880	270	6,900	-
	2005 01 (Spring)		0.46 J	< 5.0	33.0	< 2.0	< 5.0	< 10.0	0.52 J	**31.0**	-	< 3.0	< 10.0	< 0.20	**27.0**	6.4 J	< 5.0	< 5.0	< 5.0	3.4 J	**20.0**	< 100	< 100	240	650	220	5,600	-
	2004 04 (Winter)		0.44 J	**11.0**	64.0	< 2.0	< 5.0	1.2 J	0.95 J	**5.4 J**	-	0.33 J	2.6 J	< 0.20	**12.0 J**	**14.0 J**	< 5.0	< 5.0	0.19 J	2.7 J	**20.0**	2.6 J	1,600 J	**400**	1,200	360	8,600	-
	2004 02 (Summer)		< 1.0	< 1.0	52.0	< 2.0	< 5.0	< 10.0	0.86 J	< 10.0	-	0.13 J	< 10.0	< 0.20	**13.0 J**	< 20.0	< 1.0 J	< 5.0	< 1.0	6.3 J	< 20.0	< 100	< 100	330	930	300	7,800	-
	2004 01 (Spring)		< 10.0	5.8 J	39.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	**49.8 J**	< 20.0	< 20.0	< 10.0 UJ	< 10.0	< 50.0	< 20.0	< 200	< 100	295	824	335	7,720	-
	2003 04 (Winter)		< 5.0	< 50.0	43.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	< 10.0	< 0.40	**28.2 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	7.0 J	< 20.0	< 200	< 100	318	880	389	8,240	-
	2003 03 (Fall)		< 5.0	< 50.0	67.2 J	< 4.0	< 5.0	< 10.0	< 10.0	2.2 J	-	< 10.0	< 10.0	< 0.40	**16.1 J**	6.1 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**431**	1,230	430	8,110	-
	2003 02 (Summer)		< 50.0	< 50.0	50.5 J	< 4.0	< 5.0	< 10.0	< 10.0	**5.0 J**	-	< 10.0	< 10.0	< 0.40 UJ	< 50.0	6.1 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**382**	992	347 J	6,870	-
	2003 01 (Spring)		0.29 J	5.1	37.0	< 2.0	< 5.0	1.2 J	< 10.0	**5.4 J**	-	< 3.0	< 10.0	< 0.20	**26.0**	6.1 J	< 5.0	< 5.0	< 1.0	3.8 J	< 20.0	3.7 J	360	240	710	220	6,200	-
	2002 04 (Winter)		0.23 J	**17.0 J**	59.0 J	< 2.0	< 5.0	< 10.0 UJ	1.1 J	**7.0 J**	-	0.61 J	< 10.0	< 0.20	< 20.0 UJ	**13.0 J**	**68.0**	< 5.0	< 2.0	2.8 J	< 20.0	7.1 J	< 100 UJ	**390**	1,100	320	8,900	-
	2002 03 (Fall)		0.27 J	< 5.0	72.0	< 2.0	< 5.0	< 10.0 UJ	0.95 J	**4.9 J**	-	< 3.0	2.5 J	< 0.20	**12.0 J**	**8.3 J**	< 5.0	< 5.0 UJ	< 2.0	2.5 J	**12.0 J**	< 100	520 J	**400**	1,100	330	9,000	-
	2002 02 (Summer)		0.25 J	**11.0**	47.0	< 2.0	< 5.0	< 10.0	0.82 J	< 10.0	< 10.0	0.033 J	< 10.0	< 0.20	< 20.0	< 20.0	**52.0 J**	< 5.0	0.41 J	< 10.0	< 20.0	5.0 J	< 100	350	910	250	7,300	< 0.010
M019-E	2006 01 (Spring)		0.36 J	**8.7**	62.0 J	< 2.0 UJ	< 5.0 UJ	2.0 J	**4.7 J**	< 10.0	-	< 3.0 UJ	**8,500**	< 0.20	**5.7 J**	6.5 J	< 5.0	**2.5 J**	< 5.0	< 10.0	**23.0 J**	30.0 J	**3,100 J**	**440**	1,200	300	10,000	-
	2005 02 (Summer)		0.33 J	**13.0 J**	76.0	< 2.0	< 25.0	0.70 J	**5.4**	< 50.0	-	< 3.0	**9,200**	< 0.20	**7.6 J**	**11.0 J**	**8.9 J**	< 25.0	< 5.0	1.6 J	**79.0 J**	< 100	**6,000 J**	**440**	1,200	280	8,000	-
	2004 04 (Winter)		3.2	**14.0**	66.0	< 2.0	< 5.0	1.1 J	3.7	**4.4 J**	-	0.25 J	**9,500**	< 0.20	5.3 J	**11.0 J**	1.3 J	< 5.0	< 5.0	0.87 J	**25.0**	3.8 J	**8,500**	**460**	1,300	310	8,200	-
	2004 02 (Summer)		< 1.0	< 1.0	65.0	< 2.0	< 5.0	< 10.0	**4.8**	< 10.0	-	0.13 J	**8,700**	< 0.20	< 20.0	< 20.0	< 1.0 J	< 5.0	< 1.0	< 10.0	< 20.0	< 100	**6,200**	**440**	1,200	310	9,300	-
	2003 04 (Winter)		< 5.0	< 50.0	52.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**7,210**	< 0.40	**22.5 J**	< 20.0	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	**8,260**	351	996	344	8,890	-
	2003 02 (Summer)		< 50.0	**12.3 J**	62.8 J	< 4.0	< 5.0	< 10.0	3.8 J	< 10.0	-	< 10.0	**9,340 J**	< 0.40 UJ	5.5 J	5.8 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**8,290**	**512**	1,300	345 J	7,830	-
	2002 04 (Winter)		0.12 J	***27.0 J***	58.0 J	< 2.0	< 5.0	< 10.0 UJ	3.9 J	**5.4 J**	-	1.1 J	**7,800**	< 0.20	< 20.0 UJ	**11.0 J**	**82.0**	< 5.0	< 2.0	1.1 J	< 20.0	6.7 J	**8,000 J**	**420**	1,100	250	8,600	-
	2002 02 (Summer)		0.25 J	< 5.0	62.0	< 2.0	< 5.0	**14.0**	**4.8 J**	**7.8 J**	< 10.0	< 3.0 UJ	**8,100**	0.042 J	< 20.0	**9.6 J**	-	1.0 J	< 2.0	3.9 J	**14.0 J**	**680**	**6,200**	**390**	1,100	250	8,200	< 0.010
M020-A	2006 01 (Spring)		1.9	**26.0**	8.9 J	< 2.0	0.66 J	**7.2 J**	0.72 J	**18.0**	-	< 3.0	16.0	< 0.20	**19.0 J**	6.5 J	< 5.0	< 5.0	< 5.0	**33.0**	4.5 J	< 100	100 J	14.0 J	34.0 J	39.0 J	940 J	-
	2005 02 (Summer)		0.84 J	**9.7 J**	**340**	< 2.0	< 25.0	0.97 J	0.72 J	2.1 J	-	< 3.0	270	< 0.20	**8.9 J**	5.4 J	**6.2 J**	< 25.0	< 5.0	3.8 J	**48.0 J**	< 100	**2,100 J**	**390**	970	300	6,300	-
	2005 01 (Spring)		2.5	**24.0**	29.0	< 2.0	**1.9 J**	**3.7 J**	0.30 J	**13.0**	-	< 3.0	35.0	< 0.20	< 20.0	4.7 J	< 5.0	< 5.0	< 5.0	**20.0**	9.9 J	< 100	< 100	57.0	150	76.0	2,200	-
	2004 04 (Winter)		0.78 J	**13.0**	**370**	< 2.0	0.90 J	**6.2 J**	1.0	**4.6 J**	-	0.13 J	350	< 0.20	**6.4 J**	**11.0 J**	< 5.0	< 5.0	< 5.0	4.5 J	**17.0 J**	2.7 J	**2,300 J**	**440**	970	270	7,700	-
	2004 02 (Summer)		1.3	**12.0**	**170**	< 1.0	< 1.0	3.1 J	0.79 J	**4.1**	-	0.45 J	140	< 0.20	**8.9**	6.2	**18.0 J**	< 5.0	< 1.0	**9.9 J**	**19.0 J**	6.1 J	140 J	230	500	190	4,700	-
	2004 01 (Spring)		< 10.0	**11.5 J**	66.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	128	< 0.40	**19.2 J**	< 20.0	< 20.0	< 10.0 UJ	< 10.0	**12.5 J**	< 20.0	< 200	52.2 J	119	296	140	3,480	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	**348**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	306	-	**11.0 J**	**14.1 J**	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	**381**	458 J	**413**	1,310	405	9,780	-
	2003 03 (Fall)		< 5.0	< 50.0	**425**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	454	< 0.40	**7.3 J**	4.8 J	< 20.0	< 10.0	< 50.0	**9.6 J**	< 20.0	< 200	257	**490**	1,090	358	7,240	-
	2003 02 (Summer)		< 50.0	**9.1 J**	**416**	< 4.0	**8.6**	< 10.0	< 10.0	2.9 J	-	< 10.0	316	< 0.40 UJ	**7.6 J**	5.0 J	< 20.0	< 10.0	< 50.0	6.9 J	< 20.0	< 200	115 J	**501**	885	292	5,880	-
	2003 01 (Spring)		2.0	**14.0**	**140 J**	< 2.0	< 5.0	2.4 J	< 10.0	**5.4 J**	-	< 3.0	110	< 0.20	**8.5 J**	4.6 J	**16.0 J**	< 5.0	< 1.0	**11.0**	< 20.0	3.8 J	460	170 J	350	130 J	3,000	-

FWBZ

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	NA	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
M020-A	2002 04 (Winter)		0.58 J	**14.0 J**	**460 J**	< 2.0	< 5.0	< 10.0 UJ	0.87 J	5.1 J	-	0.42 J	490	< 0.20	< 20.0 UJ	6.2 J	**53.0**	< 5.0	< 2.0	8.0 J	< 20.0	*5.3 J*	*420 J*	***530***	*1,100*	*300*	*8,600*	-
	2002 03 (Fall)		0.32 J	< 5.3	**350**	< 2.0	< 5.0	< 10.0	0.91 J	< 10.0	-	< 3.0	190	< 0.20	**5.8 J**	4.2 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	800	**480**	890	250	6,400	-
	2002 02 (Summer)		0.55 J	**10.0**	**320**	< 2.0	< 5.0	< 10.0	0.76 J	< 10.0	< 10.0	0.051 J	240	< 0.20	< 20.0	< 20.0	**35.0 J**	< 5.0	< 2.0	**11.0**	< 20.0	**700**	53.0 J	**400**	850	230	6,400	< 0.010
M020-E	2006 01 (Spring)		0.67 J	**22.0**	**200**	0.69 J	< 5.0	< 10.0	1.6	< 10.0	-	< 3.0	**9,500**	**0.23**	1.1 J	0.92 J	**6.1**	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**41,000**	**460**	1,600	300	11,000	-
	2005 02 (Summer)		0.42 J	< 5.0	**190**	< 2.0	< 5.0	1.2 J	2.8	**7.9 J**	-	< 3.0	**9,700**	< 0.20	3.3 J	4.4 J	**150 J**	< 5.0	< 5.0	2.1 J	**60.0**	< 100	**40,000**	**420**	1,400	280	10,000	-
	2005 01 (Spring)		0.36 J	**17.0**	**170**	< 2.0	1.0 J	< 10.0	2.9	< 10.0	-	< 3.0	**9,400**	< 0.20	< 20.0	2.2 J	< 5.0	< 5.0	< 5.0	1.7 J	8.6 J	< 100	**40,000**	**440**	1,500	290	9,700	-
	2004 04 (Winter)		0.39 J	**18.0**	**170**	< 2.0	< 5.0	1.4 J	3.1	3.9 J	-	0.19 J	**9,900**	< 0.20	2.9 J	**9.1 J**	< 5.0	< 5.0	< 5.0	2.2 J	**25.0**	4.2 J	**45,000**	**440**	1,500	300	9,400	-
	2004 02 (Summer)		*< 1.0*	**17.0**	***180***	< 2.0	< 5.0	< 10.0	2.9	< 10.0	-	0.13 J	**9,300**	< 0.20	< 20.0	< 20.0	< 5.0 J	< 5.0	0.45 J	< 10.0	< 20.0	< 100	**36,000**	**470**	1,500	310	11,000	-
	2004 01 (Spring)		< 10.0	**8.9 J**	**159**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**8,460 J**	< 1.0	**23.4 J**	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**36,500 J**	**387 J**	1,560	338	10,600	-
	2003 04 (Winter)		< 5.0 UJ	**8.8 J**	**153**	< 4.0	< 5.0	< 10.0 UJ	**43.7 J**	< 10.0	-	< 10.0 UJ	**7,840**	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	7.4 J	< 200	**35,500 J**	372	1,690	393	11,400	-
	2003 03 (Fall)		< 5.0	< 50.0	**219**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**11,800**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**48,800**	**572**	1,890	448	10,100	-
	2003 02 (Summer)		< 50.0	**18.1 J**	**223**	< 4.0	< 5.0	*< 10.0*	*2.6 J*	*< 10.0*	-	*< 10.0*	***11,200***	< 0.40 UJ	< 50.0	1.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**48,600 J**	**560**	1,840	426	9,560	-
	2003 01 (Spring)		< 1.0	< 5.0	**180 J**	< 2.0 UJ	< 5.0	< 10.0	2.2 J	**10.0**	-	< 3.0	**9,800**	< 0.20	< 200	6.1 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	5.3 J	**41,000 J**	**430 J**	1,500 J	260 J	10,000 J	-
	2002 04 (Winter)		< 50.0	< 5.0	**180**	< 2.0	< 5.0	< 10.0	2.8 J	**13.0**	-	< 3.0	**8,200**	< 0.20	3.2 J	< 400	< 5.0	< 5.0	< 2.0	3.5 J	< 20.0	< 100	**34,000**	380	1,300	260	9,000	-
	2002 03 (Fall)		0.16 J	< 5.0	**170**	< 2.0	< 5.0	< 10.0	2.4 J	**13.0**	-	< 3.0	**8,200**	< 0.20	3.4 J	**11.0 J**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	**32,000**	**400**	1,300	270	9,300	-
	2002 02 (Summer)		0.14 J	< 5.0	**130**	< 2.0	< 5.0	**9.3 J**	2.6 J	< 10.0	< 10.0 UJ	0.030 J	**8,200**	< 0.20	*< 20.0*	**14.0 J**	-	*< 5.0 UJ*	*< 2.0*	**9.4 J**	*< 20.0*	3.3 J	**27,000**	**430**	1,500	270	10,000	< 0.010
M021-A	2005 02 (Summer)		0.67 J	3.9 J	**250**	< 2.0	< 5.0	1.6 J	0.35 J	1.3 J	-	< 3.0	110	< 0.20	1.6 J	1.9 J	**8.3 J**	< 5.0	0.62 J	3.7 J	< 20.0	< 100	380	220	430	160	4,000	-
	2005 01 (Spring)		0.83 J	< 5.0	**160**	< 2.0	< 5.0	1.8 J	0.43 J	**7.9 J**	-	< 3.0	27.0	< 0.20	< 20.0	5.2 J	< 5.0	< 5.0	< 5.0	**8.8 J**	8.6 J	< 100	< 100	150	140	64.0	1,300	-
	2004 04 (Winter)		0.72 J	**9.5**	**380**	< 2.0	< 5.0 UJ	2.0 J	0.76 J	3.4 J	-	0.12 J	330 J	< 0.20	0.62 J	**7.6 J**	**42.0**	< 5.0	< 5.0	2.0 J	**15.0 J**	1.9 J	1,500	330,000	820,000	250,000	6,900,000	-
	2004 02 (Summer)		0.94 J	7.0	**200**	< 2.0	< 5.0	< 10.0	0.79 J	< 10.0	-	0.082 J	120	< 0.20	< 20.0	< 20.0	**5.6 J**	< 5.0	< 1.0	5.5 J	< 20.0	< 100	66.0 J	*230*	*560*	*200*	*4,800*	-
	2004 01 (Spring)		< 10.0	**8.5 J**	91.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	110	< 0.40	**12.1 J**	< 20.0	< 20.0	< 10.0 UJ	< 10.0	**9.1 J**	< 20.0	< 200	152	120	239	115	2,220	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	**364**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	426	-	**11.0 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	111 J	**396**	819	334	7,670	-
	2003 03 (Fall)		< 25.0	**15.3 J**	**431**	< 4.0	< 5.0	1.2 J	< 10.0	< 10.0	-	< 10.0	194	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	373	925	332 J	6,730	-
	2003 02 (Summer)		< 50.0	< 50.0	**211**	< 4.0	< 5.0	< 10.0	1.5 J	< 10.0	-	< 10.0	157	< 0.40 UJ	< 50.0	1.5 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	241	528	181	4,160	-
	2003 01 (Spring)		1.4	**8.4**	**160 J**	< 2.0	< 5.0	2.0 J	< 10.0	1.8 J	-	< 3.0	140	< 0.20	1.0 J	3.9 J	**16.0 J**	< 5.0	< 1.0	4.6 J	< 20.0	**330 J**	770	200 J	380 J	140 J	3,100 J	-
	2002 04 (Winter)		0.93 J	**9.5**	110	< 2.0	< 5.0	< 10.0	0.68 J	6.3 J	-	0.081 J	82.0	< 0.20	**8.6 J**	5.8 J	**10.0**	< 5.0	< 2.0	7.5 J	< 20.0	3.7 J	740	120	160	77.0	1,400	-
	2002 03 (Fall)		< 50.0	*< 5.0*	***280***	*< 2.0*	*< 5.0*	*< 10.0*	*0.84 J*	< 10.0	-	< 3.0	97.0	< 0.20	0.49 J	**8.0 J**	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	960	350	740	240	6,000	-
	2002 02 (Summer)		0.29 J	**9.8**	**240**	< 2.0	< 5.0	< 10.0	0.63 J	< 10.0	< 10.0	< 3.0	62.0	0.061 J	< 20.0	< 20.0	**35.0**	< 5.0	0.44 J	< 10.0	< 20.0	5.5 J	< 100	250	660	220	5,700	< 0.010
M021-E	2006 01 (Spring)		0.41 J	**15.0**	**320**	0.59 J	0.84 J	< 10.0	1.8	< 10.0	-	0.13 J	**3,100**	**0.12 J**	2.4 J	1.6 J	**2.6 J**	< 5.0	< 5.0	< 10.0	**46.0**	< 100	**25,000**	260	920	230	7,700	-
	2005 02 (Summer)		0.17 J	3.4 J	**320**	< 2.0	< 5.0	1.1 J	2.6	3.1 J	-	< 3.0	**3,500**	< 0.20	1.5 J	2.9 J	**58.0 J**	< 5.0	0.13 J	1.6 J	-	< 100	**27,000**	240	880	220	6,900	-
	2005 01 (Spring)		0.36 J	**21.0**	**270**	< 2.0	< 5.0	< 10.0	2.6	< 10.0	-	< 3.0	**3,300**	*< 0.20*	*< 20.0*	*1.6 J*	*< 5.0*	*< 5.0*	*< 5.0*	*0.88 J*	**12.0 J**	< 100	**27,000**	250	910	220	7,500	-
	2004 04 (Winter)		0.70 J	**14.0**	**350**	< 2.0	< 5.0 UJ	1.5 J	3.1	3.0 J	-	0.33 J	**4,100**	< 0.20	1.7 J	**7.7 J**	< 5.0	< 5.0	< 5.0	2.0 J	**19.0 J**	5.8 J	**33,000 J**	270,000	1,000,000	250,000	8,400,000	-
	2004 02 (Summer)		< 1.0	3.0	**340**	< 2.0	< 5.0	< 10.0	3.3	< 10.0	-	0.62 J	**3,800**	< 0.20	< 20.0	< 20.0	< 1.0 J	< 5.0	< 1.0	6.6 J	< 20.0	< 100	**31,000**	260	970	240	8,100	-
	2004 01 (Spring)		< 10.0	**20.9 J**	**317**	< 4.0	< 5.0	< 10.0	**5.1 J**	< 10.0	-	< 10.0	**3,780 J**	< 1.0	**24.1 J**	< 20.0	< 20.0	< 10.0	< 10.0	6.0 J	< 20.0	< 200	**33,300 J**	249 J	1,050	272	8,530	-
	2003 04 (Winter)		< 5.0 UJ	**10.9 J**	**279**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	**3,250**	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	***26,700 J***	*218*	*833*	*283*	*8,030*	-
	2003 03 (Fall)		< 5.0	< 50.0	**360**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**4,600**	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**33,700**	312	1,130	298	7,540	-
	2003 02 (Summer)		< 50.0	< 50.0	**328**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**4,270**	< 0.40 UJ	< 50.0	3.9 J	**9.0 J**	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**35,200 J**	272	983	240	6,740	-
	2003 01 (Spring)		0.52 J	< 5.0	**350 J**	< 2.0	< 5.0	1.6 J	2.8 J	7.3 J	-	< 3.0	**3,900**	< 0.20	< 200	**8.5 J**	< 5.0	< 5.0	< 1.3	< 10.0	< 20.0	3.0 J	**31,000 J**	240 J	890 J	220 J	7,400	-

FWBZ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
M021-E	2002 04 (Winter)		< 50.0	< 5.0	**280**	< 2.0	< 5.0	2.5 J	3.3 J	**11.0**	-	0.13 J	**3,600**	< 0.20	1.5 J	**11.0 J**	**63.0**	< 5.0	< 2.0	3.9 J	< 20.0	4.1 J	**27,000**	220	810	200	6,600	-
	2002 03 (Fall)		< 50.0	< 5.0	**300**	< 2.0	< 5.0	< 10.0	2.8 J	**12.0**	-	< 3.0	**3,700**	< 0.20	1.9 J	**11.0 J**	< 5.0 UJ	< 5.0	< 2.0	0.96 J	< 70.0	< 100	**27,000**	250	920	220	7,500	-
	2002 02 (Summer)		0.12 J	< 5.0	**260**	**1.5 J**	< 5.0	< 10.0	2.9 J	< 10.0	< 10.0 UJ	0.029 J	**4,200**	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	**8.8 J**	9.2 J	3.2 J	**22,000**	270	980	220	8,200	< 0.010
M022-A	2005 02 (Summer)		0.77 J	0.69 J	**760**	< 2.0	< 5.0	**7.1 J**	1.6	2.0 J	-	< 3.0	440	< 0.20	< 20.0	3.2 J	**15.0 J**	< 5.0	< 5.0	**11.0**	< 20.0	< 100	580 J	300	500	170	4,300	-
	2005 01 (Spring)		1.6	< 5.0	**690**	< 2.0	< 5.0	**3.8 J**	1.6	< 10.0	-	< 3.0	160	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	**8.5 J**	**13.0 J**	< 100	< 100	350	570	170	4,500	-
	2004 04 (Winter)		1.8	4.4 J	**810**	< 2.0	< 5.0	**6.7 J**	1.9	2.2 J	-	0.20 J	230	< 0.20	0.23 J	6.8 J	< 5.0	< 5.0	0.22 J	**9.5 J**	**16.0 J**	6.2 J	1,400 J	370	640	190	4,700	-
	2004 02 (Summer)		2.3	2.2	**660**	< 2.0	< 5.0	< 10.0	2.1	< 10.0	-	0.061 J	120	< 0.20	< 20.0	< 20.0	< 1.0 J	< 5.0	< 1.0	**14.0**	< 20.0	< 100	< 100	330	560	180	5,000	-
	2004 01 (Spring)		< 10.0	< 50.0	**664**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	128	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0 UJ	< 10.0	**8.7 J**	< 20.0	< 200	< 100	347	607	208	5,230	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	**707**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	113	-	**32.0 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	**11.5 J**	< 20.0	< 200	< 100 UJ	357	634	241	5,940	-
	2003 03 (Fall)		< 5.0	< 50.0	**857**	< 4.0	< 5.0	**6.2 J**	< 10.0	< 10.0	-	< 10.0	201	< 0.40	< 50.0	2.0 J	< 20.0	< 10.0	< 25.0	**8.6 J**	< 20.0	< 200	< 100	**426**	757	240	5,510	-
	2003 02 (Summer)		< 50.0	< 50.0	**899**	< 4.0	< 5.0	**6.1 J**	2.2 J	< 10.0	-	< 10.0	177	< 0.40 UJ	< 50.0	1.8 J	< 20.0	< 10.0	< 50.0	**8.8 J**	< 20.0	< 200	< 100	**455**	801	252	5,820	-
	2003 01 (Spring)		2.4	< 5.0	**760 J**	< 2.0	< 5.0	**5.7 J**	1.7 J	2.6 J	-	< 3.0	140	< 0.20	< 200	4.1 J	< 5.0	< 5.0	< 1.0	**9.7 J**	< 20.0	5.1 J	890	360 J	630 J	170 J	5,400	-
	2002 04 (Winter)		1.4 J	**8.5**	**840**	< 2.0	< 5.0	**5.3 J**	1.9 J	3.0 J	-	< 3.0	120	< 0.20	< 20.0	5.6 J	**9.8**	< 5.0	< 2.0	8.0 J	< 20.0	< 100	**1,700**	**440**	690	200	5,500	-
	2002 03 (Fall)		1.5 J	< 5.0	**710**	< 2.0	< 5.0	**5.6 J**	1.8 J	< 10.0	-	< 3.0	140	< 0.20	< 20.0	6.2 J	< 5.0 UJ	< 5.0	< 2.0	7.3 J	< 20.0	< 100	950	330	610	180	5,200	-
	2002 02 (Summer)		1.2 J	**8.6**	**750**	< 2.0	< 5.0	< 10.0	1.8 J	< 10.0	< 10.0	0.091 J	150	**0.12 J**	< 20.0	< 20.0	**39.0 J**	< 5.0	0.84 J	**9.9 J**	< 20.0	8.7 J	110	350	620	180	5,200	0.010 J
M022-E	2006 01 (Spring)		0.31 J	3.6 J	**430 J**	< 2.0 UJ	< 5.0 UJ	< 10.0 UJ	**12.0 J**	< 10.0	-	< 3.0 UJ	**4,100**	**0.31**	3.5 J	**8.0 J**	< 5.0	< 5.0	**8.8**	< 10.0	**23.0 J**	< 100	**17,000 J**	260	970	240	8,700	-
	2005 02 (Summer)		0.23 J	< 5.0	**550**	< 2.0	< 5.0	1.0 J	**22.0**	3.2 J	-	< 3.0	**4,300**	< 0.20	**6.8 J**	**18.0 J**	**58.0 J**	< 5.0	< 5.0	0.76 J	**39.0**	< 100	**19,000**	240	840	210	7,400	-
	2005 01 (Spring)		0.36 J	< 5.0	**460**	< 2.0	< 5.0	< 10.0	**20.0**	< 10.0	-	< 3.0	**4,100**	< 0.20	< 20.0	**16.0 J**	< 5.0	< 5.0	< 5.0	< 10.0	**16.0 J**	< 100	**16,000**	230	830	200	6,600	-
	2004 02 (Summer)		0.47 J	< 1.0	**600**	< 1.0	< 1.0	1.9	**23.0**	**14.0**	-	0.60 J	**4,300**	< 0.20	**7.3**	**27.0**	< 1.0 J	< 1.0	< 1.0	6.1 J	< 1.0	< 50.0	**21,000**	290	960	220	8,400	-
	2004 01 (Spring)		< 5.0	6.9 J	**481**	< 4.0	< 5.0	< 10.0	**16.0**	< 10.0	-	< 10.0	**3,660 J**	< 1.0	**15.2 J**	**10.4 J**	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**18,400 J**	235 J	827	227	7,540	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	**524**	< 4.0	< 5.0	< 10.0 UJ	< 20.7 UJ	< 10.0	-	< 10.0 UJ	**3,560**	-	**16.4 J**	**18.3 J**	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	**19,000 J**	231	814	275	2,720	-
	2003 03 (Fall)		< 25.0	**15.8 J**	**672**	< 4.0	0.88 J	< 10.0	**26.1**	< 10.0	-	< 10.0	**5,130**	< 0.40	**8.4 J**	**20.7**	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**25,000**	313	1,070	278 J	7,570	-
	2003 02 (Summer)		< 50.0	7.5 J	**637**	< 4.0	< 5.0	< 10.0	**25.4**	< 10.0	-	< 10.0	**4,780**	< 0.40 UJ	**8.7 J**	**19.7 J**	< 20.0	< 10.0	< 50.0	< 50.0	1.9 J	< 200	**23,500 J**	296	1,000	250	6,920	-
	2003 01 (Spring)		1.9	< 5.0	**560 J**	< 2.0	< 5.0	1.5 J	**21.0**	7.5 J	-	< 3.0	**4,100 J**	< 0.20	**5.9 J**	**22.0**	< 5.0	< 5.0	< 1.8	< 10.0	< 20.0	14.0 J	**20,000**	230 J	820 J	180 J	7,200	-
	2002 04 (Winter)		< 50.0	< 5.0	**420**	< 2.0	**2.9 J**	< 10.0	**13.0**	**8.7 J**	-	< 3.0	**3,300**	< 0.20	< 20.0	**40.0**	< 5.0	< 5.0	< 2.0	< 10.0	**34.0 J**	< 100	**13,000**	290	910	220	7,700	-
	2002 03 (Fall)		< 50.0	< 5.0	**550**	< 2.0	< 5.0	< 10.0	**16.0**	< 10.0	-	< 3.0	**3,500**	< 0.20	**6.3 J**	**21.0**	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 21.0	< 100	**20,000**	240	810	180	7,000	-
	2002 02 (Summer)		0.32 J	< 5.0	**590**	< 2.0	< 5.0	< 10.0	**26.0**	< 10.0	< 10.0	0.23 J	**4,000**	< 0.20	< 20.0	**22.0**	-	< 5.0 UJ	< 2.0	7.1 J	**11.0 J**	5.6 J	**19,000**	250	870	190	7,400	< 0.010
M023-A	2006 01 (Spring)		2.2	< 5.0	110	0.48 J	< 5.0	**3.6 J**	< 1.0	2.3 J	-	< 3.0	31.0	< 0.20	2.5 J	0.98 J	< 5.0	**2.9 J**	**4.6 J**	< 10.0	**23.0**	< 100	37.0 J	110	170	66.0	1,800	-
	2005 02 (Summer)		**20.0**	< 5.0	**290**	< 2.0	< 5.0	**7.0 J**	1.1	**5.1 J**	-	**3.6**	33.0 J	< 0.20	1.0 J	**8.0 J**	**64.0**	0.086 J	< 5.0	5.2 J	**88.0**	**940 J**	**2,900**	360	780	230	4,900	-
	2005 01 (Spring)		6.2	< 5.0	98.0	< 2.0	< 5.0	2.1 J	0.31 J	< 10.0	-	< 3.0	30.0	< 0.20	< 20.0	2.5 J	< 5.0	< 5.0	< 5.0	3.0 J	**13.0 J**	< 100	< 100	110	200	71.0	1,900	-
	2004 04 (Winter)		**21.0**	**9.9**	**230**	< 2.0	< 5.0 UJ	2.3 J	0.66 J	**3.4 J**	-	0.15 J	35.0	< 0.20	0.91 J	5.0 J	**22.0**	< 5.0	< 5.0	1.9 J	**15.0 J**	5.3 J	1,400	360,000	770,000	240,000	7,500,000	-
	2004 02 (Summer)		**42.0**	**8.3**	**270**	< 2.0	< 5.0	< 10.0	0.59 J	< 10.0	-	0.11 J	19.0	< 0.20	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	4.4 J	< 100	**390**	820	240	6,300	-
	2004 01 (Spring)		**67.1**	< 50.0	**179**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	37.6	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	6.1 J	< 20.0	< 200	< 100	224	428	159	3,940	-
	2003 04 (Winter)		5.6 J	< 50.0 UJ	**150**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	30.8	-	**12.8 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	< 100 UJ	280	594	277	6,550	-
	2003 03 (Fall)		**30.6 J**	< 50.0 UJ	**302**	< 4.0	< 5.0	2.3 J	< 10.0	1.3 J	-	< 10.0	38.5	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	**456**	1,070	362 J	7,280	-
	2003 02 (Summer)		< 73.3	< 50.0 UJ	**296**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	49.0	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	**446**	962	303	6,640	-
	2003 01 (Spring)		**26.0**	4.8 J	< 240	0.37 J	< 5.0	2.3 J	< 10.0	**4.2 J**	-	< 3.0	54.0	< 0.20	1.7 J	2.7 J	**13.0**	< 5.0	< 1.0	2.5 J	< 20.0	10.0 J	510	320	700	200	5,600	-
	2002 04 (Winter)		**26.0 J**	**10.0**	**190**	< 2.0	< 5.0	< 10.0	0.70 J	**4.7 J**	-	0.43 J	58.0	< 0.20	1.7 J	4.7 J	< 5.0 UJ	< 5.0	< 2.0	1.1 J	< 20.0	7.6 J	1,100	370	760	230	6,900	-

FWBZ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

ITSI Innovative Technical Solutions, Inc.

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
FWBZ	*M023-A*	*2002 03 (Fall)*	**38.0 J**	< 5.0	**340**	< 2.0	< 5.0	3.4 J	1.0 J	**3.2 J**	-	*0.096 J*	*45.0*	*< 0.20*	*0.54 J*	***8.2 J***	*< 5.0 UJ*	< 5.0	< 2.0	1.3 J	< 20.0	*< 100*	*1,400*	**470**	*990*	270	8,200	-
		2002 02 (Summer)	5.6 J	< 5.0	**410**	< 2.0	< 5.0	< 10.0	1.1 J	**5.5 J**	< 10.0	< 3.0 UJ	43.0	< 0.20	0.82 J	5.0 J	-	< 5.0	< 2.0	6.3 J	< 20.0	9.2 J	**1,800**	**400**	750	210	6,000	< 0.010
	M023-E	2006 01 (Spring)	0.28 J	**8.4**	**750 J**	< 2.0 UJ	< 5.0 UJ	< 10.0 UJ	3.0 J	< 10.0	-	< 3.0 UJ	**1,700**	< 0.20	< 20.0	**9.8 J**	< 5.0	**3.6 J**	**15.0**	< 10.0	**27.0 J**	< 100	**12,000 J**	280	570	110	4,500	-
		2005 02 (Summer)	0.40 J	**27.0**	**1,100**	< 2.0	< 5.0	2.1 J	3.3	**4.8 J**	-	< 3.0	**1,500**	< 0.20	0.87 J	4.4 J	**77.0 J**	< 5.0	< 5.0	2.7 J	**44.0**	< 100	**30,000**	170	810	200	6,900	-
		2005 01 (Spring)	0.40 J	**19.0**	**650**	< 2.0	< 5.0	< 10.0	2.9	< 10.0	-	< 3.0	**1,800**	< 0.20	< 20.0	6.8 J	< 5.0	< 5.0	< 5.0	2.5 J	**23.0**	< 100	**8,200**	170	680	160	5,200	-
		2004 04 (Winter)	0.86 J	**51.0**	**1,300**	< 2.0	< 5.0 UJ	1.8 J	3.8	2.3 J	-	0.11 J	900 J	< 0.20	1.1 J	**8.0 J**	**35.0**	< 5.0	< 5.0	1.9 J	**16.0 J**	3.4 J	**34,000 J**	190,000	970,000	240,000	8,100,000	-
		2004 02 (Summer)	0.31 J	< 1.0	**1,200**	< 1.0	< 1.0	2.6 J	**4.7**	**13.0**	-	0.50 J	730	< 0.20	1.1 J	**14.0**	< 1.0 J	< 5.0	< 1.0	2.0 J	< 20.0	3.1 J	**31,000 J**	180	950	250	8,900	-
		2004 01 (Spring)	< 5.0	**48.5 J**	**959**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	678 J	< 1.6 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**29,100 J**	153 J	838	248	8,330	-
		2003 04 (Winter)	< 5.0	**43.1 J**	**1,050**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	648	< 0.40	**24.5 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	5.5 J	< 20.0	< 200	**28,800**	153	843	290	8,950	-
		2003 03 (Fall)	< 5.0 UJ	**58.3 J**	**1,440**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**1,200**	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**34,700**	213	1,060	287 J	7,700	-
		2003 02 (Summer)	< 50.0	< 64.4 UJ	**1,280**	< 4.0	< 5.0 UJ	< 10.0	< 10.0	< 10.0	-	< 10.0	824	< 0.40 UJ	< 50.0	5.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**36,000 J**	204	1,020	268	7,500	-
		2003 01 (Spring)	0.35 J	< 5.0	**1,100**	< 2.0	< 5.0	2.5 J	4.4 J	**7.5 J**	-	< 3.0	820	< 0.28	< 200	**11.0 J**	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	4.5 J	**29,000**	150	840	190	7,300	-
		2002 04 (Winter)	< 50.0	< 5.0	**1,100**	< 2.0	< 5.0	3.3 J	4.4 J	**12.0**	-	0.13 J	740	< 0.20	0.83 J	**14.0 J**	< 5.0	< 5.0	< 2.0	4.1 J	< 20.0	< 100	**32,000**	160	850	210	7,700	-
		2002 03 (Fall)	0.25 J	< 5.0	**1,000**	< 2.0	< 5.0	1.1 J	3.3 J	**10.0**	-	0.045 J	**1,300**	< 0.20	1.0 J	**13.0 J**	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**15,000**	180	890	210	8,000	-
		2002 02 (Summer)	0.19 J	< 5.0	**1,100**	< 2.0	< 5.0	< 10.0	3.7 J	< 10.0	< 10.0	0.053 J	860	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	**8.8 J**	**11.0 J**	6.9 J	**29,000**	180	930	200	8,600	< 0.010
	M024-A	2006 01 (Spring)	*0.28 J*	*2.9 J*	***700 J***	*< 2.0 UJ*	*< 5.0 UJ*	*2.5 J*	*1.9 J*	*< 10.0*	-	*< 3.0 UJ*	*380*	***0.12 J***	*< 20.0*	*< 20.0 UJ*	*< 5.0*	**2.9 J**	**12.0**	*< 10.0*	***14.0 J***	*< 100*	***15,000 J***	140	96.0	50.0	350	-
		2005 02 (Summer)	4.0	< 5.0	**950**	< 2.0	< 5.0	**13.0**	2.8	1.4 J	-	< 3.0	420	< 0.20	0.46 J	**25.0**	**7.9**	< 5.0	< 5.0	< 10.0	**23.0**	9.4 J	**11,000**	95.0	170	63.0	410	-
		2005 01 (Spring)	0.67 J	< 5.0	**620**	< 2.0	< 5.0	3.1 J	2.1	< 10.0	-	< 3.0	360	< 0.20	< 20.0	2.4 J	< 5.0	< 5.0	< 5.0	< 10.0	**12.0 J**	< 100	**15,000**	140	62.0	41.0	330	-
		2004 04 (Winter)	0.92 J	2.4 J	**650**	< 2.0	< 5.0	**4.4 J**	1.5	0.94 J	-	0.40 J	600	< 0.20	< 20.0	4.1 J	< 5.0	< 5.0	< 5.0	2.5 J	**14.0 J**	12.0 J	**11,000**	110	120	49.0	530	-
		2004 02 (Summer)	1.7	3.6 J	**1,100**	< 2.0	< 5.0	< 10.0	2.7	< 10.0	-	0.22 J	450	< 0.20	< 20.0	< 20.0	**2.2 J**	< 5.0	0.72 J	< 10.0	*< 20.0*	*13.0 J*	***14,000***	*120*	*180*	*74.0*	*450*	-
		2004 01 (Spring)	2.1 J	< 50.0	**965**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	414	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0 UJ	< 10.0	< 50.0	< 20.0	< 200	**14,500**	117	183	70.5 J	452	-
		2003 04 (Winter)	< 5.0	< 50.0	**507**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	452	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	**8,040**	82.3	90.2	45.5	479	-
		2003 03 (Fall)	< 5.0	**8.6 J**	**461**	< 4.0	< 5.0	**5.6 J**	2.2 J	< 10.0	-	< 10.0	489	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 5.0	3.4 J	< 20.0	< 200	**7,800**	84.0	102	38.3 J	397	-
		2003 02 (Summer)	< 50.0	< 50.0	**1,000**	< 4.0	< 5.0	3.0 J	< 10.0	< 10.0	-	< 10.0	455	< 0.40	< 50.0	3.5 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**13,800**	119	196 J	69.1 J	452 J	-
		2003 01 (Spring)	0.80 J	0.71 J	**640**	< 2.0	< 5.0	**3.7 J**	1.5 J	1.1 J	-	< 3.0	350	< 0.20	< 20.0	3.0 J	1.4 J	< 5.0	< 1.0	2.1 J	< 20.0	< 100	**8,100**	92.0	99.0	49.0	430	-
		2002 04 (Winter)	0.66 J	< 5.0	**520**	0.048 J	< 5.0	**4.1 J**	2.1 J	1.9 J	-	0.44 J	340	< 0.20	< 20.0	3.9 J	1.3 J	0.025 J	< 2.0	< 10.0	**70.0 J**	18.0 J	**17,000**	120	53.0	37.0	250	-
		2002 03 (Fall)	0.48 J	< 5.0	**480**	0.031 J	< 5.0	**4.8 J**	1.3 J	< 10.0	-	< 3.0	620	< 0.20	< 20.0	3.8 J	< 5.0 UJ	< 5.0	< 2.0	3.4 J	< 20.0	< 100	**7,600**	96.0	88.0	43.0	470	-
		2002 02 (Summer)	0.63 J	1.2 J	**600**	< 2.0	< 5.0	< 10.0	1.4 J	< 10.0	< 10.0	0.13 J	570	< 0.20	< 20.0	< 20.0	**4.5 J**	< 5.0	**3.7**	< 10.0	< 20.0	**210**	**6,800**	100	100	50.0	480	< 0.010
	M024-E	2006 01 (Spring)	0.19 J	**10.0**	**530 J**	< 2.0 UJ	< 5.0 UJ	< 10.0 UJ	0.61 J	< 10.0	-	< 3.0 UJ	**1,300**	0.092 J	3.2 J	3.5 J	< 5.0	**3.5 J**	**9.4**	< 10.0	**22.0 J**	< 100	**8,200 J**	120	180	68.0	1,600	-
		2005 02 (Summer)	< 1.0	**12.0**	**160**	< 2.0	< 5.0	2.8 J	0.49 J	0.81 J	-	< 3.0	340	< 0.20	3.3 J	2.3 J	**3.5 J**	< 5.0	< 5.0	3.5 J	8.4 J	5.7 J	**3,500**	35.0	35.0	24.0	430	-
		2005 01 (Spring)	*< 1.0*	***19.0***	***260***	*< 2.0*	*< 5.0*	*1.9 J*	*0.26 J*	*< 10.0*	-	< 3.0	350	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	2.4 J	4.9 J	< 100	**6,100**	54.0	41.0	30.0	440	-
		2004 04 (Winter)	1.3	**14.0**	**250**	< 2.0	< 5.0 UJ	2.0 J	0.68 J	0.67 J	-	0.071 J	660	< 0.20	2.8 J	2.8 J	**4.5 J**	< 5.0	0.24 J	2.9 J	8.9 J	2.7 J	**5,900**	69,000	82,000	41,000	850,000	-
		2004 02 (Summer)	< 1.0	**16.0**	**270**	< 2.0	< 5.0	< 10.0	0.61 J	< 10.0	-	0.14 J	540	< 0.20	< 20.0	< 20.0	**2.5 J**	< 5.0	< 5.0	4.6 J	7.9 J	< 100	**4,800**	62.0	70.0	36.0	750	-
		2004 01 (Spring)	< 5.0	**10.6 J**	**199**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	283 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.2 J	< 20.0	< 200	**5,030 J**	51.1 J	31.9	25.9	372 J	-
		2003 04 (Winter)	< 5.0	< 50.0	**176**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	341	< 0.40	< 50.0	*< 20.0*	*< 20.0*	*< 10.0*	*< 25.0 UJ*	*< 50.0*	*< 20.0*	*< 200*	***4,120***	*44.6*	*39.5*	*29.0*	*537*	-
		2003 03 (Fall)	< 5.0 UJ	< 50.0 UJ	**251**	< 4.0	< 5.0	2.0 J	< 10.0	< 10.0	-	< 10.0	757	-	< 50.0	< 20.0	< 20.0	< 10.0	-	2.8 J	10.5 J	< 200	**4,800**	67.0	93.4	37.2 J	884	-
		2003 02 (Summer)	< 50.0	**17.1 J**	**245**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	731	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 5.0	1.8 J	< 20.0	< 200	**4,340**	63.5	92.7 J	34.7 J	851 J	-
		2003 01 (Spring)	< 1.0	**13.0**	**280**	< 2.0	< 5.0	< 10.0	< 10.0	0.52 J	-	< 3.0	600	< 0.20	3.5 J	5.9 J	**2.4 J**	< 5.0	< 1.0	2.8 J	< 20.0 UJ	< 100	**5,600**	67.0	79.0	38.0	770	-

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Innovative Technical Solutions, Inc.

Table 4-6

Groundwater Sample Analytical Results at *IR Site 2: Dissolved Metals*

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements						Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	*Selenium*	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
FWBZ	*M024-E*	*2002 04 (Winter)*	0.21 J	**15.0**	**210**	< 2.0	< 5.0	*2.4 J*	0.34 J	*0.19 J*	-	*0.062 J*	*250*	*< 0.20*	*3.4 J*	*0.87 J*	*0.89 J*	< 5.0	< 2.0	3.9 J	1.7 J	3.4 J	**4,300**	43.0	30.0	27.0	420	-
		2002 03 (Fall)	< 50.0	**12.0**	**310**	< 2.0	< 5.0	< 10.0	0.75 J	< 10.0	-	< 3.0	990	< 0.20	3.3 J	3.9 J	< 5.0 UJ	< 5.0	< 2.0	1.6 J	< 20.0	< 100	**6,000**	80.0	130	49.0	1,200	-
		2002 02 (Summer)	0.24 J	**15.0**	**250**	< 2.0	< 5.0	< 10.0	0.63 J	< 10.0	< 10.0	0.080 J	540	< 0.20	< 20.0	< 20.0	**5.7 J**	< 5.0	< 2.0	< 10.0	< 20.0	**110**	**5,500**	57.0	65.0	35.0	700	< 0.010
	M036-A	2006 01 (Spring)	1.4	< 5.0	**450**	0.40 J	< 5.0	**6.9 J**	1.3	1.6 J	-	0.36 J	700	< 0.20	1.9 J	2.9 J	< 5.0	1.6 J	< 500	< 10.0	< 20.0	< 100	**6,300**	160	150	67.0	1,200	-
		2005 02 (Summer)	1.1	< 5.0	**510**	< 2.0	< 5.0	**7.5 J**	2.6	1.1 J	-	< 3.0	770	< 0.20	0.43 J	4.6 J	**9.5**	< 5.0	0.11 J	2.7 J	**25.0**	*24.0 J*	**9,800**	*150*	*120*	*57.0*	*930*	-
		2005 01 (Spring)	1.2	< 5.0	**540**	< 2.0	< 5.0	**6.3 J**	1.7	< 10.0	-	< 3.0	720	< 0.20	< 20.0	4.6 J	< 5.0	< 5.0	< 5.0	3.6 J	8.2 J	**130 J**	**6,100**	190	180	66.0	1,400	-
		2004 04 (Winter)	0.99 J	3.9 J	**550**	< 2.0	< 5.0	**7.5 J**	3.1	1.4 J	-	0.28 J	750	< 0.20	0.56 J	5.4 J	**3.2 J**	< 5.0	< 5.0	3.8 J	**12.0 J**	30.0 J	**16,000**	250	230	87.0	1,600	-
		2004 02 (Summer)	0.90 J	< 1.0	**750**	< 1.0	< 1.0	**7.2**	2.7	4.1	-	0.45 J	920	< 0.20	0.86 J	5.8	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	24.0 J	**9,600**	260	260	97.0	2,000	-
		2004 01 (Spring)	< 10.0	< 50.0	**617**	< 4.0	< 5.0	**7.5 J**	< 10.0	< 10.0	-	< 10.0	1,090	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	5.6 J	< 20.0	< 200	**10,100**	247	196	81.5	1,440	-
		2003 04 (Winter)	< 5.0	< 50.0	**801**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	583	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**5,770**	257	381	142	3,110	-
		2003 03 (Fall)	< 25.0 UJ	< 50.0	**764**	< 4.0	< 5.0	**8.1 J**	3.0 J	< 10.0	-	< 10.0	928 J	< 0.40	< 50.0	4.2 J	< 20.0	< 10.0	< 10.0	2.4 J	< 20.0	54.7 J	**12,400 J**	270 J	274 J	82.2 J	1,770 J	-
		2003 02 (Summer)	< 50.0	6.3 J	**749**	< 4.0	< 5.0	**9.7 J**	4.1 J	< 10.0	-	< 10.0	956	< 0.40	< 50.0	3.1 J	< 20.0	< 10.0	< 50.0	3.2 J	< 20.0	< 200	**10,700**	267	281	100 J	1,830	-
		2003 01 (Spring)	2.5	< 5.0	**480**	< 2.0	1.3 J	**8.5 J**	2.6 J	**3.2 J**	-	0.55 J	870	< 0.20	< 200	5.4 J	< 5.0	< 5.0	< 1.0	4.7 J	**42.0 J**	47.0 J	**12,000**	180	130	59.0	950	-
		2002 04 (Winter)	0.69 J	2.5 J	**890**	< 2.0	< 5.0	**7.0 J**	2.5 J	2.5 J	-	0.26 J	620	< 0.20	< 20.0	5.7 J	1.6 J	< 5.0	< 2.0	4.7 J	< 20.0	< 100	**3,400**	280	390	120	< 0.50	-
		2002 03 (Fall)	0.45 J	< 5.0	**870**	< 2.0	< 5.0	**5.5 J**	2.3 J	< 10.0	-	< 3.0	670	< 0.20	< 20.0	3.7 J	**3.6 J**	< 5.0	< 2.0	3.1 J	< 20.0	< 100	**3,800**	280	410	120	3,000	-
		2002 02 (Summer)	*0.78 J*	*0.85 J*	**610**	*< 2.0*	*< 5.0*	*< 200*	*3.3 J*	*2.2 J*	*< 10.0*	*1.3 J*	*820*	*< 0.20*	*< 20.0*	*5.0 J*	-	*< 5.0*	*< 2.0*	*8.1 J*	*< 20.0*	**460**	**5,100**	220	210	84.0	1,600	*< 0.010*
	M036-E	2006 01 (Spring)	0.38 J	**14.0**	**760**	0.55 J	< 5.0	< 10.0	2.7	< 10.0	-	< 3.0	300	< 0.20	1.6 J	4.6 J	< 5.0	< 5.0	**2.6 J**	< 10.0	**35.0**	< 100	**20,000**	120	630	180	6,500	-
		2005 02 (Summer)	0.39 J	< 5.0	**890**	< 2.0	< 5.0	2.5 J	3.8	**3.4 J**	-	< 3.0	330	< 0.20	< 20.0	5.1 J	**59.0 J**	< 5.0	< 5.0	2.5 J	**30.0**	< 100	**23,000**	130	630	180	6,500	-
		2005 01 (Spring)	< 1.0	< 5.0	**770**	< 2.0	0.64 J	< 10.0	3.5	< 10.0	-	< 3.0	280	< 0.20	< 20.0	3.1 J	< 5.0	< 5.0	< 5.0	0.94 J	9.5 J	83.0 J	**22,000**	130	620	180	6,300	-
		2004 04 (Winter)	0.48 J	**12.0**	**930**	< 2.0	< 5.0	2.5 J	3.9	1.9 J	-	0.29 J	370	< 0.20	0.35 J	***8.1 J***	*< 5.0*	*< 5.0*	*< 5.0*	*2.4 J*	***14.0 J***	*6.1 J*	***28,000***	*150*	*720*	*200*	6,800	-
		2004 02 (Summer)	0.53 J	< 1.0	**890**	< 1.0	< 1.0	2.9	4.0	**18.0**	-	0.12 J	330	**0.14 J**	1.5 J	**13.0**	< 1.0 J	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	**27,000**	150	710	200	7,600	-
		2004 01 (Spring)	< 5.0	< 50.0	**777**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	336 J	< 1.0	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**25,900 J**	142 J	694	223	7,570 J	-
		2003 04 (Winter)	< 5.0	7.5 J	**802**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	318	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**23,800**	128	645	243	7,390	-
		2003 03 (Fall)	< 5.0	< 50.0	**954**	< 4.0	< 5.0	1.8 J	< 10.0	< 10.0	-	< 10.0	410	< 0.40	< 50.0	3.8 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**29,400**	163	772	225	6,620	-
		2003 02 (Summer)	< 50.0	**16.2 J**	**1,060**	< 4.0	< 5.0	2.0 J	**4.9 J**	< 10.0	-	< 10.0	453	< 0.40	< 50.0	3.7 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**33,000**	196	901 J	238 J	7,950 J	-
		2003 01 (Spring)	1.1	< 5.0	**870**	< 2.0	< 5.0	3.0 J	3.9 J	6.0 J	-	< 3.0	320	< 0.20	< 200	**9.9 J**	< 5.0	< 5.0	< 1.0	3.7 J	< 20.0	5.1 J	**24,000**	130	610	160	6,600	-
		2002 04 (Winter)	0.26 J	< 5.0	**870**	< 2.0	0.11 J	2.7 J	4.0 J	**8.6 J**	-	0.077 J	350	< 0.20	< 20.0	**13.0 J**	< 5.0	< 5.0	< 2.0	2.8 J	1.7 J	< 100	**25,000**	140	690	180	< 0.50	-
		2002 03 (Fall)	0.15 J	< 5.0	**640**	< 2.0	< 5.0	< 10.0	3.4 J	5.5 J	-	< 3.0	330	< 0.20	0.41 J	7.3 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**17,000**	130	700	180	6,900	-
		2002 02 (Summer)	0.21 J	< 5.0	**470**	< 2.0	< 5.0	< 10.0	4.5 J	7.1 J	< 10.0	0.27 J	330	< 0.20	0.64 J	**8.6 J**	-	< 5.0	< 2.0	5.9 J	< 20.0	**300**	1,600	140	730	180	7,500	< 0.010
	M037-A	2006 01 (Spring)	1.5	7.3	**210**	0.42 J	< 5.0	**4.9 J**	3.7	< 10.0	-	< 3.0	160	< 0.20	1.3 J	**8.1 J**	< 5.0	**1.7 J**	**3.6 J**	3.7 J	< 20.0	< 100	**6,100**	78.0	160	120	1,900	-
		2005 02 (Summer)	*2.5*	***10.0***	***280***	*< 2.0*	*< 5.0*	**7.1 J**	4.5	0.48 J	-	< 3.0	160	< 0.20	0.57 J	**10.0 J**	**27.0**	< 5.0	0.21 J	8.0 J	**20.0**	< 100	**8,200**	81.0	210	140	2,100	-
		2005 01 (Spring)	1.4	< 5.0	**250**	< 2.0	< 5.0	**7.4 J**	4.5	< 10.0	-	< 3.0	160	< 0.20	< 20.0	**9.4 J**	< 5.0	< 5.0	< 5.0	7.4 J	**16.0 J**	< 100	**11,000**	79.0	160	100	1,900	-
		2004 04 (Winter)	1.7	**11.0**	**350**	< 2.0	< 5.0	**8.3 J**	**5.3**	1.1 J	-	0.19 J	200	< 0.20	0.56 J	**11.0 J**	**18.0**	< 5.0	< 5.0	6.5 J	10.0 J	7.3 J	**12,000**	90.0	210	130	2,500	-
		2004 02 (Summer)	2.1	**19.0**	**350**	< 2.0	< 5.0	< 10.0	**6.3**	< 10.0	-	0.24 J	200	0.050 J	< 20.0	**12.0 J**	**16.0 J**	< 5.0	< 1.0	**12.0**	< 20.0	41.0 J	**13,000**	110	320	180	3,900	-
		2004 01 (Spring)	< 10.0	4.5 J	**282**	< 4.0	< 5.0	**7.0 J**	< 10.0	< 10.0	-	< 10.0	*183*	*< 0.40*	*< 50.0*	*< 20.0*	*< 20.0*	*< 10.0*	*< 10.0*	***8.5 J***	*< 20.0*	*< 200*	***9,810***	*97.4*	*179*	*126*	2,120	-
		2003 04 (Winter)	< 5.0	5.9 J	**334**	< 4.0	< 5.0	< 10.0	< 12.5	< 10.0	-	< 10.0	177	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	6.3 J	< 20.0	< 200	**17,100**	90.4	194	146	2,470	-
		2003 03 (Fall)	10.2 J	**24.0 J**	**568**	< 4.0	0.92 J	**8.0 J**	**8.9 J**	< 10.0	-	< 10.0	475 J	< 0.40	< 50.0	**15.1 J**	< 20.0	< 10.0	< 10.0	7.7 J	**35.4**	< 200	**27,200 J**	173 J	555 J	282 J	5,510 J	-
		2003 02 (Summer)	< 50.0	6.8 J	**441**	< 4.0	< 5.0	**11.1**	**6.4 J**	< 10.0	-	< 10.0	211	< 0.40	< 50.0	**13.9 J**	< 20.0	< 10.0	< 50.0	5.3 J	< 20.0	< 200	**20,400**	122	261	134 J	2,670	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at *IR Site 2: Dissolved Metals*

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
FWBZ	M037-A	*2003 01 (Spring)*	2.8	4.4 J	**290**	< 2.0	< 5.0	**8.8 J**	**6.4 J**	1.7 J	-	< 3.0	*170*	*< 0.20*	*< 200*	***13.0 J***	*< 5.0*	*< 5.0*	*< 1.0*	***11.0***	*< 20.0*	13.0 J	**8,100**	85.0	170	110	2,100	-
		2002 04 (Winter)	1.5 J	< 5.0	**390**	< 2.0	< 5.0	**9.9 J**	**6.5 J**	1.7 J	-	0.17 J	210	< 0.20	< 20.0	**14.0 J**	< 5.0	< 5.0	< 2.0	8.0 J	**16.0 J**	< 100	**17,000**	100	200	130	2,400	-
		2002 03 (Fall)	2.7 J	< 5.0	**350**	< 2.0	< 5.0	**8.6 J**	**5.8 J**	3.1 J	-	< 3.0	200	**0.13 J**	0.84 J	**17.0 J**	< 5.0	< 5.0	< 2.0	**10.0**	< 20.0	68.0 J	**13,000**	87.0	260	150	3,100	-
		2002 02 (Summer)	3.6 J	**16.0**	**230**	< 2.0	< 5.0	**8.7 J**	**8.0 J**	3.9 J	< 10.0	0.88 J	220	< 0.20	1.3 J	< 400	-	< 5.0	< 2.0	**16.0**	< 20.0	**340**	**6,300**	100	280	170	3,600	< 0.010
	M037-E	2006 01 (Spring)	0.42 J	7.1	**1,500**	0.60 J	< 5.0	< 10.0	3.0	< 10.0	-	< 3.0	330	< 0.20	1.8 J	< 20.0	**7.9**	< 5.0	< 500	< 10.0	< 20.0	< 100	**28,000**	*200*	*950*	*240*	*8,300*	-
		2005 02 (Summer)	< 1.0	< 5.0	**1,500**	< 2.0	< 5.0	< 10.0	3.8	3.4 J	-	< 3.0	360	< 0.20	0.56 J	4.2 J	**180**	0.046 J	0.45 J	< 10.0	**65.0**	< 100	**29,000**	190	870	230	6,800	-
		2005 01 (Spring)	0.52 J	< 5.0	**1,500**	< 2.0	0.93 J	< 10.0	4.1	< 10.0	-	< 3.0	320	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 5.0	1.9 J	8.4 J	< 100	**29,000**	210	970	250	8,400	-
		2004 04 (Winter)	0.27 J	**11.0**	**1,500**	< 2.0	< 5.0	1.5 J	3.8	2.4 J	-	0.12 J	360	**0.12 J**	0.38 J	4.8 J	1.5 J	< 5.0	< 5.0	1.6 J	**14.0 J**	1.9 J	**170,000**	210	930	880	8,400	-
		2004 02 (Summer)	< 1.0	< 1.0	**1,500**	< 2.0	< 5.0	< 10.0	**5.0**	< 10.0	-	0.58 J	380	< 0.20	< 20.0	**10.0 J**	< 1.0 J	< 5.0	< 5.0	0.28 J	< 10.0	7.5 J	**30,000 J**	220	960	260	8,500	-
		2004 01 (Spring)	< 10.0	5.8 J	**1,480**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	420	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**32,600**	211	998	316	9,250	-
		2003 04 (Winter)	< 5.0	5.1 J	**1,260**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	351	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**26,300**	177	831	301	8,420	-
		2003 03 (Fall)	< 25.0 UJ	< 50.0	***1,610***	< 4.0	0.71 J	< 10.0	4.1 J	< 10.0	-	< 10.0	497 J	< 0.40	< 50.0	2.4 J	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**35,100 J**	252 J	1,110 J	310 J	7,630 J	-
		2003 02 (Summer)	< 50.0	7.7 J	**1,770**	< 4.0	< 5.0	< 10.0	3.6 J	< 10.0	-	< 10.0	544	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**39,500**	275	1,210	334 J	8,220	-
		2003 01 (Spring)	0.32 J	< 5.0	**1,500**	< 2.0	< 5.0	2.1 J	4.4 J	6.4 J	-	< 3.0	420	< 0.20	< 200	**8.4 J**	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	3.5 J	**29,000**	190	790	210	7,300	-
		2002 04 (Winter)	0.17 J	< 5.0	**1,400**	< 2.0	< 5.0	1.6 J	4.0 J	**8.2 J**	-	0.12 J	400	< 0.20	< 20.0	**11.0 J**	< 5.0	< 5.0	< 2.0	1.6 J	< 20.0	< 100	**29,000**	210	930	230	8,100	-
		2002 03 (Fall)	0.11 J	< 5.0	**1,300**	< 2.0	< 5.0	< 10.0	3.7 J	***8.4 J***	-	< 3.0	*430*	< 0.20	0.56 J	7.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**28,000**	200	910	220	7,700	-
		2002 02 (Summer)	0.18 J	< 5.0	**1,000**	< 2.0	< 5.0	< 500	**4.8 J**	**10.0 J**	< 10.0	< 3.0 UJ	450	< 0.20	0.88 J	7.2 J	-	< 5.0	< 2.0	8.4 J	< 20.0	**400**	**16,000**	210	970	220	8,100	< 0.010
	M038-A	2006 01 (Spring)	2.4	**13.0**	**200**	< 2.0	< 5.0	1.8 J	1.6	< 10.0	-	< 3.0	310	< 0.20	1.7 J	**8.3 J**	< 5.0	**2.1 J**	< 500	5.9 J	< 20.0	< 100	**7,700**	140	320	190	4,700	-
		2005 01 (Spring)	0.47 J	< 5.0	**300**	< 2.0	< 5.0	**4.2 J**	3.2	< 10.0	-	< 3.0	380	< 0.20	< 20.0	**8.2 J**	< 5.0	< 5.0	< 5.0	3.0 J	**14.0 J**	< 100	**22,000**	150	340	210	4,500	-
		2004 04 (Winter)	0.74 J	**19.0**	**490**	< 2.0	< 5.0	**4.5 J**	3.5	1.8 J	-	0.29 J	360	< 0.20	0.62 J	**12.0 J**	*< 5.0*	*< 5.0*	*< 5.0*	*3.9 J*	***11.0 J***	*6.3 J*	***20,000***	*200*	*480*	*240*	6,100	-
		2004 01 (Spring)	< 10.0	**10.4 J**	**229**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	633	< 0.40	< 50.0	**14.2 J**	< 20.0	< 10.0 UJ	< 10.0	< 50.0	< 20.0	< 200	**14,600**	138	257	182	3,320	-
		2003 04 (Winter)	< 5.0	**8.7 J**	**296**	< 4.0	< 5.0	**6.1 J**	< 10.0	< 10.0	-	< 10.0 UJ	627	< 0.40	< 50.0	**23.1**	< 20.0	< 10.0	< 25.0 UJ	6.2 J	< 20.0	< 200	**15,400**	143	296	203	3,600	-
		2003 02 (Summer)	< 50.0	**26.5 J**	**486**	< 4.0	< 5.0	**4.6 J**	**4.6 J**	< 10.0	-	< 10.0	621	< 0.40	< 50.0	**14.9 J**	< 20.0	< 10.0	< 50.0	2.6 J	< 20.0	< 200	**32,500**	256	591 J	302 J	5,900 J	-
		2003 01 (Spring)	2.2	1.7 J	**210**	< 2.0	< 5.0	**7.2 J**	4.3 J	3.1 J	-	< 3.0	570	< 0.20	< 200	**13.0 J**	< 5.0	< 5.0	< 1.0	5.8 J	7.0 J	8.1 J	**9,500**	110	180	120	2,300	-
		2002 04 (Winter)	0.77 J	< 5.0	**520**	< 2.0	< 5.0	**6.4 J**	4.5 J	6.1 J	-	0.24 J	600	< 0.20	< 20.0	**17.0 J**	< 5.0	< 5.0	< 2.0	5.0 J	< 20.0	< 100	**28,000**	140	320	240	3,800	-
		2002 02 (Summer)	0.81 J	**10.0**	**200**	< 2.0	< 5.0	**5.4 J**	4.2 J	< 10.0	-	0.13 J	470	0.045 J	< 20.0	**9.7 J**	**30.0 J**	< 5.0 UJ	< 2.0	< 10.0	< 20.0	5.5 J	180	200	480	240	6,000	< 0.010
	M038-E	2006 01 (Spring)	0.43 J	**9.4**	**1,700**	0.62 J	< 5.0	< 10.0	3.4	< 10.0	-	< 3.0	220	**0.18 J**	0.47 J	1.5 J	**3.2 J**	< 5.0	**3.0 J**	< 10.0	< 20.0	< 100	**27,000**	270	1,100	250	8,500	-
		2005 02 (Summer)	< 1.0	< 5.0	**1,700**	< 2.0	< 5.0	**4.1 J**	4.5	4.7 J	-	0.28 J	250	< 0.20	0.80 J	**11.0 J**	**160**	< 5.0	0.26 J	2.1 J	**74.0**	< 100	**26,000**	240	950	250	6,900	-
		2005 01 (Spring)	< 1.0	< 5.0	**1,600**	< 2.0	0.48 J	2.0 J	4.5	< 10.0	-	< 3.0	220	< 0.20	< 20.0	**8.2 J**	< 5.0	< 5.0	< 5.0	1.5 J	**11.0 J**	< 100	**27,000**	270	1,100	280	8,800	-
		2004 04 (Winter)	1.1	**16.0**	**1,600**	< 2.0	< 5.0	2.5 J	4.2	3.1 J	-	0.12 J	180	< 0.20	0.36 J	**18.0 J**	< 5.0	< 5.0	< 5.0	4.0 J	**17.0 J**	1.4 J	**19,000**	240 J	1,000	270 J	7,900	-
		2004 02 (Summer)	0.36 J	< 1.0	***1,800***	*< 1.0*	*< 1.0*	**3.7 J**	**5.3**	**14.0**	-	0.066 J	250	< 0.20	0.68 J	**18.0**	< 1.0 J	< 5.0	< 1.0	2.2 J	< 20.0	2.7 J	**28,000 J**	270	1,100	300	9,600	-
		2004 01 (Spring)	< 10.0	**8.9 J**	**1,560**	< 4.0	< 5.0	**10.2**	< 10.0	< 10.0	-	< 10.0	264 J	< 1.0	**19.3 J**	**34.4**	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**29,900 J**	266 J	1,170	329	9,430 J	-
		2003 04 (Winter)	< 5.0	< 50.0	**1,420**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	247	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**24,800**	221	945	338	9,140	-
		2003 03 (Fall)	< 25.0 UJ	< 50.0 UJ	**1,870**	< 4.0	< 5.0	1.8 J	< 10.0	< 10.0	-	< 10.0	361	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**33,400**	318	1,260	361 J	8,200	-
		2003 02 (Summer)	< 50.0	**13.4 J**	**1,920**	< 4.0	< 5.0	1.8 J	**5.4 J**	< 10.0	-	< 10.0	*359*	< 0.40	*< 50.0*	*3.9 J*	*< 20.0*	*< 10.0*	*< 50.0*	*< 50.0*	*< 20.0*	*< 200*	***35,500***	335	1,330 J	326 J	9,430 J	-
		2003 01 (Spring)	0.30 J	< 5.0	**1,700**	< 20.0	< 5.0	3.1 J	4.5 J	7.0 J	-	< 3.0	280	< 0.20	< 200	**11.0 J**	< 5.0	< 5.0	< 1.0	3.4 J	< 20.0	3.2 J	**28,000**	240	970	250	7,900	-
		2002 04 (Winter)	0.44 J	< 5.0	**1,700**	< 2.0	< 5.0	2.7 J	4.5 J	**9.5 J**	-	0.15 J	240	< 0.20	< 20.0	**20.0**	< 5.0	0.080 J	< 2.0	5.0 J	< 20.0	< 100	**23,000**	260	1,100	270	8,700	-
		2002 03 (Fall)	0.26 J	< 5.0	**1,000**	< 2.0	< 5.0	< 10.0	4.2 J	4.6 J	-	< 3.0	300	< 0.20	< 20.0	**9.9 J**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**7,700**	260	1,100	260	8,700	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA	0.15
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	NA	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369	NA
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA	0.0010
FWBZ	M038-E	2002 02 (Summer)	0.57 J	**12.0**	**1,100**	< 2.0	< 5.0	< 10.0	**5.2 J**	< 10.0	< 10.0 UJ	0.035 J	330	< 0.20	< 20.0	< 20.0	**31.0 J**	< 5.0 UJ	< 2.0	< 10.0	8.0 J	3.9 J	1,500	280	1,100	270	9,400	< 0.010
	M039-A	2006 01 (Spring)	0.95 J	< 5.0	120	< 2.0	< 5.0	**4.7 J**	1.6	< 10.0	-	0.33 J	1,000	< 0.20	1.6 J	4.0 J	< 5.0	< 5.0	2.3 J	2.0 J	2.3 J	< 100 UJ	**16,000**	85.0	61.0	54.0	420	-
		2005 02 (Summer)	< 1.0	< 5.0	**250**	< 2.0	< 5.0	**6.0 J**	2.4	< 10.0	-	< 3.0	710	< 0.20	0.34 J	6.9 J	**5.5**	< 5.0	0.089 J	< 10.0	**14.0 J**	18.0 J	**7,800**	100	76.0	62.0	580	-
		2005 01 (Spring)	1.1	< 5.0	**140**	< 2.0	0.59 J	**4.6 J**	1.9	3.5 J	-	< 3.0	680	< 0.20	< 20.0	7.4 J	< 5.0	< 5.0	< 5.0	2.6 J	8.8 J	< 100	**16,000**	75.0	67.0	64.0	700	-
		2004 04 (Winter)	0.73 J	5.2	**340**	< 2.0	< 5.0	**6.5 J**	2.9	1.3 J	-	0.43 J	800	< 0.20	< 20.0	**8.8 J**	**4.6 J**	< 5.0	< 5.0	2.0 J	7.5 J	17.0 J	**8,700**	140	110	77.0	810	-
		2004 02 (Summer)	0.71 J	4.1	**270**	< 1.0	< 1.0	**7.2**	2.5	0.82 J	-	0.11 J	720	< 0.20	0.30 J	5.7	1.4 J	< 5.0	< 1.0	3.1	< 20.0	16.0 J	**6,800 J**	130	99.0	76.0	740	-
		2004 01 (Spring)	< 5.0	< 50.0	**220**	< 4.0	< 5.0	**10.3**	**5.8 J**	< 10.0	-	< 10.0	799	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**12,700**	118	108	95.9 J	876	-
		2003 04 (Winter)	< 5.0	< 50.0	**316**	< 4.0	< 5.0	< 10.0	< 12.1	< 10.0	-	< 10.0	754	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**6,330**	131	109	87.7	810	-
		2003 03 (Fall)	< 5.0 UJ	< 50.0	**305**	< 4.0	< 5.0	**7.1 J**	3.4 J	< 10.0	-	< 10.0	832 J	< 0.40	< 50.0	7.3 J	< 20.0	< 10.0	< 5.0	2.4 J	< 20.0	41.7 J	**6,690 J**	140 J	116 J	75.4 J	700 J	-
		2003 02 (Summer)	< 50.0	< 50.0	**281**	< 4.0	< 5.0	1.4 J	< 10.0	2.4 J	-	< 10.0	753	< 0.40	< 50.0	**11.0 J**	< 20.0	< 10.0	< 5.0	< 50.0	4.2 J	31.4 J	**6,260**	127	109	667 J	700	-
		2003 01 (Spring)	0.83 J	1.9 J	**260**	< 2.0	< 5.0	**7.3 J**	2.4 J	0.82 J	-	< 3.0	600	< 0.20	< 200	6.3 J	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	17.0 J	**7,000**	100	92.0	72.0	760	-
		2002 04 (Winter)	0.63 J	2.0 J	**140**	< 2.0	< 5.0	**5.9 J**	2.1 J	2.2 J	-	0.34 J	760	< 0.20	< 20.0	4.6 J	< 5.0	< 5.0	< 2.0	2.1 J	**310 J**	< 100	**15,000**	95.0	73.0	71.0	560	-
		2002 03 (Fall)	0.76 J	< 5.0	**330**	< 2.0	< 5.0	**7.6 J**	3.3 J	< 10.0	-	< 3.0	680	0.052 J	< 20.0	**9.0 J**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**5,100**	120	110	83.0	930	-
		2002 02 (Summer)	0.73 J	3.1 J	**330**	< 2.0	< 5.0	**7.1 J**	3.3 J	< 10.0	< 10.0 UJ	0.086 J	730	< 0.20	< 20.0	**18.0 J**	**5.8 J**	< 5.0 UJ	< 2.0	**8.8 J**	7.3 J	18.0 J	**3,900**	130	120	88.0	930	< 0.010
SWBZ	M010-B	2006 01 (Spring)	< 1.0	< 5.0	34.0	0.39 J	< 5.0	1.8 J	0.49 J	< 10.0	-	< 3.0	59.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.47 J	**26.0**	< 100	1,400 J	100 J	500 J	150 J	2,600 J	-
		2005 02 (Summer)	0.21 J	2.5 J	**380**	< 2.0	< 5.0	0.86 J	1.2	0.73 J	-	0.28 J	**1,900**	< 0.20	**7.1 J**	3.6 J	**3.2 J**	< 5.0	0.11 J	2.2 J	< 20.0	< 100	220	64.0	160	53.0	1,800	-
		2004 04 (Winter)	0.094 J	7.8	34.0	< 2.0	< 5.0	2.3 J	0.58 J	1.3 J	-	0.28 J	63.0	< 0.20	0.27 J	2.4 J	**13.0**	< 5.0	0.62 J	1.8 J	8.3 J	2.3 J	**1,800**	93.0	500	150	2,800	-
		2004 02 (Summer)	0.081 J	5.5	37.0	< 1.0	< 1.0	2.9	0.74 J	1.3	-	0.075 J	56.0	< 0.20	< 5.0	2.4	**4.6**	< 1.0	< 1.0	< 3.2	< 1.0	< 50.0	1,600	120	540	160	3,100	-
		2003 04 (Winter)	< 5.0	< 50.0	30.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	61.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	1,500	93.2	459	167	2,700	-
		2003 02 (Summer)	< 50.0	< 50.0	38.7 J	< 4.0	< 5.0	1.2 J	< 10.0	< 10.0	-	< 10.0	74.2	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**1,840**	127	585	162 J	2,890	-
		2002 04 (Winter)	0.052 J	**9.3**	37.0 J	< 2.0	< 5.0	2.2 J	0.52 J	1.4 J	-	< 3.0	65.0	**0.15 J**	< 20.0	1.5 J	**25.0**	< 5.0	< 2.0	1.8 J	< 20.0	< 100	**1,900**	86.0 J	490 J	130 J	2,700	-
		2002 02 (Summer)	< 50.0	6.6 J	32.0	< 2.0	< 5.0	< 10.0	0.55 J	< 10.0	< 10.0	0.053 J	62.0	< 0.20	< 20.0	< 20.0	**25.0 J**	< 5.0	< 2.0	< 10.0	**14.0 J**	7.3 J	1,200	99.0	470	150	2,600	< 0.010
	M012-B	2006 01 (Spring)	0.20 J	5.1	57.0	0.49 J	0.57 J	1.8 J	**11.0**	2.4 J	-	< 3.0	**8,500**	< 0.20	4.3 J	**11.0 J**	**6.4**	**4.5 J**	< 5.0	0.84 J	< 20.0	< 100	46.0 J	**680**	1,400	160	8,700	-
		2005 02 (Summer)	0.22 J	< 5.0	65.0	< 2.0	< 5.0	1.3 J	**11.0**	3.6 J	-	< 3.0	**8,400**	< 0.20	3.9 J	**17.0 J**	**65.0**	< 5.0	< 5.0	7.3 J	**74.0**	3.3 J	**3,400**	**590**	1,200	150	8,100	-
		2004 04 (Winter)	0.31 J	< 5.0	59.0	< 2.0	< 5.0	1.5 J	**12.0**	5.2 J	-	0.54 J	**10,000**	< 0.20	3.1 J	**23.0**	< 5.0	< 5.0	< 5.0	**8.6 J**	**22.0**	8.8 J	**2,200**	**700**	1,400	180	8,300	-
		2004 02 (Summer)	0.28 J	< 1.0	54.0	< 1.0	< 1.0	< 1.3	**11.0**	**8.2**	-	0.34 J	**7,900**	< 0.20	3.3 J	**24.0**	< 1.0	< 1.0	0.26 J	**8.6**	< 1.0	7.5 J	< 100	**640**	1,300	160	8,500	-
		2003 04 (Winter)	< 5.0	< 50.0	47.7 J	< 4.0	< 5.0	< 10.0	< 14.3	< 10.0	-	< 10.0	**7,490**	< 0.40	**28.2 J**	< 20.0	< 20.0	< 10.0	< 25.0 UJ	7.2 J	< 20.0	< 200	51.4 J	**670**	1,400	210	8,260	-
		2003 02 (Summer)	< 500	< 500	61.9 J	< 40.0	< 50.0	< 100	**15.7 J**	< 100	-	< 100	**10,200**	< 0.40	< 500	< 200	< 200	< 100	< 50.0	< 500	< 200	< 2,000	< 1,000	**612**	1,460	200 J	7,670	-
		2002 04 (Winter)	0.089 J	**15.0 J**	54.0 J	< 2.0	< 5.0	< 10.0 UJ	**11.0**	5.1 J	-	0.55 J	**8,800**	< 0.20	< 20.0 UJ	**18.0 J**	**57.0**	< 5.0	< 2.0	6.8 J	< 20.0	6.1 J	83.0 J	**600**	1,200	160	7,300	-
		2002 02 (Summer)	< 50.0	< 5.0	53.0	< 2.0	< 5.0	**7.1 J**	**9.5 J**	< 10.0	< 10.0 UJ	< 3.0	**7,800**	< 0.20	< 20.0	< 20.0	0.80 J	< 5.0 UJ	< 2.0	5.1 J	< 20.0	< 100	< 100	**660**	1,400	150	8,400	< 0.010
	M013-C	2006 01 (Spring)	0.097 J	**13.0**	45.0	0.48 J	1.2 J	1.3 J	**7.5**	2.2 J	-	< 3.0	**9,700**	< 0.20	2.1 J	4.5 J	**9.2**	**4.3 J**	< 5.0	0.52 J	< 20.0	< 100	< 100	**750**	1,400	110	8,400	-
		2005 02 (Summer)	0.21 J	5.4 J	57.0	< 2.0	0.78 J	< 50.0	**6.7**	< 50.0	-	< 3.0	**11,000**	< 0.20	< 100	**11.0 J**	**6.7 J**	< 25.0	< 5.0	5.3 J	**67.0 J**	2.7 J	**3,400**	**740**	1,400	120	8,100	-
		2004 04 (Winter)	0.33 J	< 5.0	52.0	< 2.0	< 5.0	1.4 J	**7.6**	3.9 J	-	0.51 J	**11,000**	< 0.20	2.1 J	**16.0 J**	< 5.0	< 5.0	< 5.0	7.2 J	**20.0**	4.6 J	**2,200**	**770**	1,400	120	8,100	-
		2004 02 (Summer)	0.25 J	< 1.0	49.0	< 1.0	< 1.0	< 1.5	**6.9**	**8.8**	-	0.26 J	**10,000**	< 0.20	2.5 J	**17.0**	< 1.0	< 1.0	< 1.0	6.9	< 1.0	< 50.0	< 100	**710**	1,300	120	8,300	-
		2003 04 (Winter)	< 5.0	< 50.0	35.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0 UJ	**7,890**	< 0.40	**30.5 J**	**12.2 J**	< 20.0	< 10.0	< 10.0 UJ	6.5 J	< 20.0	< 200	< 100	**668**	1,170	126	7,290	-
		2003 02 (Summer)	10.8 J	< 50.0	46.9 J	< 4.0	**1.8 J**	< 10.0	**8.0 J**	< 10.0	-	< 10.0	**11,100 J**	< 0.40 UJ	< 50.0	**8.3 J**	< 20.0	< 10.0	< 50.0	3.8 J	< 20.0	< 200	< 100	**825**	1,430	133 J	7,120	-
		2002 04 (Winter)	0.12 J	**13.0 J**	40.0 J	< 2.0	< 5.0	< 10.0 UJ	**6.3 J**	5.3 J	-	0.55 J	**8,600**	< 0.20	< 20.0 UJ	**12.0 J**	**52.0**	< 5.0	< 2.0	6.2 J	< 20.0	8.1 J	< 100 J	**580**	1,000	92.0	6,400	-
		2002 02 (Summer)	< 50.0	< 5.0	42.0	< 2.0	< 5.0	< 10.0	**6.7 J**	< 10.0	< 10.0 UJ	< 3.0	**8,800**	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	< 100	**680**	1,200	95.0	7,500	< 0.010

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at *IR Site 2: Dissolved Metals*

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
SWBZ																												
M014-B	2006 01 (Spring)		0.40 J	**12.0**	82.0	0.67 J	**1.7 J**	2.7 J	**6.5**	1.8 J	-	0.16 J	**7,500**	< 0.20	1.7 J	**11.0 J**	**6.0**	**5.3**	< 5.0	< 10.0	**43.0**	< 100	120	**490**	850	87.0	7,100	-
	2005 02 (Summer)		0.19 J	1.3 J	82.0	0.084 J	< 5.0	1.2 J	**8.4**	2.8 J	-	0.57 J	**8,300**	< 0.20	1.9 J	**13.0 J**	**24.0**	0.11 J	< 5.0	2.0 J	**74.0**	18.0 J	**3,400**	**470**	780	69.0	6,300	-
	2004 04 (Winter)		0.13 J	**9.2**	49.0	< 2.0	< 5.0	0.67 J	**7.4**	3.2 J	-	0.16 J	**9,200**	< 0.20	0.85 J	**11.0 J**	**18.0**	< 5.0	< 5.0	1.6 J	**13.0 J**	3.3 J	**1,800**	**450**	790	69.0	6,600	-
	2004 02 (Summer)		0.41 J	< 1.0	44.0	< 1.0	< 1.0	< 1.4	**8.1**	**13.0**	-	0.13 J	**8,700**	< 0.20	1.5 J	**14.0**	< 1.0	< 1.0	< 1.0	< 3.5	< 1.0	< 50.0	90.0 J	**500**	880	83.0	7,800	-
	2003 04 (Winter)		< 5.0	< 50.0	51.3 J	< 4.0	< 5.0	< 10.0	< 10.7	< 10.0	-	< 10.0 UJ	**8,240**	< 0.40	< 50.0	**15.1 J**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	90.0 J	**431**	812	102	7,600	-
	2003 02 (Summer)		< 50.0	< 50.0	43.3 J	< 4.0	0.59 J	< 10.0	**9.6 J**	< 10.0	-	< 10.0	**9,530 J**	< 0.40 UJ	< 50.0	7.0 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	210	**538**	943	88.6 J	6,330	-
	2002 04 (Winter)		0.14 J	**15.0**	< 40.0 UJ	< 2.0	< 5.0	< 10.0	**7.6 J**	**31.0**	-	< 3.0	**8,300 J**	< 0.20	1.1 J	**9.0 J**	**55.0**	< 5.0 UJ	< 2.2	0.82 J	< 20.0	< 100	**2,700**	**500 J**	910 J	69.0 J	7,000	-
	2002 02 (Summer)		< 50.0	< 5.0	40.0	< 2.0	< 5.0	**5.4 J**	**9.1 J**	< 10.0	< 10.0 UJ	< 3.0	**7,900**	< 0.20	< 20.0	< 20.0	-	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	300	**490**	890	80.0	7,100	< 0.010
M016-B	2006 01 (Spring)		< 1.0	**11.0**	49.0	0.80 J	**2.1 J**	2.0 J	**14.0**	< 10.0	-	< 3.0	**19,000**	< 0.20	< 20.0	**11.0 J**	**9.5**	**6.4**	< 5.0	< 10.0	< 20.0	< 100	76.0 J	**870 J**	1,500 J	130 J	7,800 J	-
	2005 02 (Summer)		0.15 J	< 5.0	58.0	< 2.0	< 5.0	1.9 J	**16.0**	4.4 J	-	< 3.0	**17,000**	< 0.20	< 20.0	**21.0**	**33.0**	< 5.0	0.28 J	3.7 J	**110**	2.3 J	**5,800**	**800**	1,400	150	7,100	-
	2004 04 (Winter)		0.18 J	**9.4**	52.0	< 2.0	0.83 J	0.77 J	**13.0**	4.4 J	-	0.20 J	**16,000**	< 0.20	0.68 J	**17.0 J**	< 5.0	< 5.0	< 5.0	2.5 J	**19.0 J**	2.5 J	**2,700**	**820**	1,400	160	7,900	-
	2004 02 (Summer)		0.25 J	< 1.0	52.0	< 1.0	0.54 J	1.2 J	**15.0**	**10.0**	-	0.56 J	**16,000**	< 0.20	0.97 J	**24.0**	< 1.0 J	< 5.0	< 1.0	3.4 J	< 20.0	3.4 J	87.0 J	**810**	1,400	160	7,800	-
	2003 04 (Winter)		< 25.0	< 50.0	42.1 J	< 4.0	< 5.0	< 10.0	< 11.5	< 10.0	-	< 10.0 UJ	**14,000**	< 0.40	**36.3 J**	**10.2 J**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	78.2 J	**856**	1,500	197	7,970	-
	2003 02 (Summer)		< 50.0	< 50.0	51.7 J	< 4.0	1.1 J	< 10.0	**17.2**	< 10.0	-	< 10.0	**17,800 J**	< 0.40 UJ	< 50.0	**14.2 J**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	112	**914**	1,610	183 J	6,940	-
	2002 04 (Winter)		0.13 J	**12.0 J**	53.0	< 2.0	< 5.0	< 10.0	**13.0**	6.4 J	-	0.42 J	**19,000**	< 0.20	< 20.0 UJ	**17.0 J**	< 5.0 UJ	< 5.0	< 2.0	3.5 J	< 20.0	5.9 J	**4,100**	**900**	1,500	140	8,000	-
	2002 02 (Summer)		0.092 J	**14.0 J**	47.0	< 2.0	< 5.0	< 10.0	**14.0**	< 10.0	< 10.0	< 3.0	**14,000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	4.7 J	38.0 J	**770**	1,400	140	7,300	< 0.010
M020-B	2006 01 (Spring)		< 1.0	< 5.0	110	0.51 J	< 5.0	< 10.0	< 1.0	< 10.0	-	< 3.0	750	< 0.20	2.8 J	< 20.0	< 5.0	**2.5 J**	**3.4 J**	< 10.0	< 20.0	< 100	**6,000**	190	330	87.0	2,100	-
	2005 02 (Summer)		0.22 J	4.0 J	110	< 2.0	< 5.0	1.3 J	0.50 J	1.3 J	-	< 3.0	690	< 0.20	< 20.0	3.0 J	**6.2 J**	< 5.0	< 5.0	1.3 J	**31.0 J**	< 100	**8,000 J**	180	320	72.0	1,900	-
	2004 04 (Winter)		0.083 J	6.1	110	< 2.0	< 5.0	0.89 J	0.45 J	0.98 J	-	0.31 J	730	< 0.20	0.38 J	3.5 J	**8.5**	< 5.0	< 5.0	0.86 J	5.8 J	3.7 J	**6,900**	200	320	78.0	2,000	-
	2004 02 (Summer)		0.12 J	7.0	110	< 2.0	< 5.0	< 10.0	0.64 J	< 10.0	-	0.061 J	760	< 0.20	< 20.0	< 20.0	**17.0 J**	< 5.0	< 1.0	< 10.0	< 20.0	< 100	**8,000**	210	340	91.0	2,200	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	94.1 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	656	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	**7,970 J**	195	318	96.3	2,330	-
	2003 02 (Summer)		< 50.0	< 50.0	118	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	-	< 10.0	846	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**10,100 J**	226	361	90.6	2,000	-
	2002 04 (Winter)		< 50.0	< 5.0	100	< 2.0	< 5.0	< 10.0	0.49 J	1.3 J	-	< 3.0	630	< 0.20	0.86 J	2.9 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**9,900**	200	310	77.0	2,100	-
	2002 02 (Summer)		< 50.0	2.2 J	84.0	< 2.0	< 5.0	< 10.0	0.52 J	< 10.0	< 10.0	< 3.0	580	< 0.20	< 20.0	< 20.0	**4.1 J**	< 5.0	< 2.0	< 10.0	< 20.0	**420**	**8,600**	190	310	77.0	2,000	< 0.010
M021-C	2006 01 (Spring)		< 1.0	< 5.0	82.0	0.45 J	< 5.0	2.3 J	0.41 J	0.75 J	-	< 3.0	660	< 0.20	1.0 J	< 20.0	< 5.0	**2.0 J**	1.7 J	< 10.0	< 20.0	< 100	**6,700**	120	310	89.0	1,600	-
	2005 02 (Summer)		< 1.0	4.1 J	86.0	< 2.0	< 5.0	2.4 J	0.82 J	0.97 J	-	< 3.0	660	< 0.20	< 20.0	2.4 J	**6.2 J**	< 5.0	< 5.0	1.8 J	**28.0 J**	32.0 J	**7,300 J**	120	540	90.0	3,000	-
	2004 04 (Winter)		2.5	**8.5**	85.0	< 2.0	< 5.0 UJ	1.9 J	0.78 J	1.9 J	-	0.16 J	690	< 0.20	0.40 J	3.3 J	**14.0**	< 5.0	0.58 J	1.8 J	**16.0 J**	3.0 J	**8,000**	140,000	310,000	97,000	1,600,000	-
	2004 02 (Summer)		< 1.0	5.3	85.0	< 2.0	< 5.0	< 10.0	0.90 J	< 10.0	-	0.073 J	640	0.091 J	< 20.0	< 20.0	**8.9 J**	< 5.0	< 1.0	< 10.0	< 20.0	< 100	**6,700**	130	290	97.0	1,600	-
	2003 04 (Winter)		< 5.0 UJ	< 50.0 UJ	84.1 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	-	< 10.0 UJ	640	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	7.9 J	< 200	**7,650 J**	131	297	112	1,730	-
	2003 02 (Summer)		< 50.0	< 50.0	88.8 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	-	< 10.0	711	< 0.40 UJ	< 50.0	1.4 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**7,780 J**	143	318	80.8	1,520	-
	2002 04 (Winter)		< 50.0	2.6 J	95.0	< 2.0	< 5.0	< 10.0	0.83 J	1.5 J	-	0.063 J	610	< 0.20	0.40 J	2.7 J	< 5.0	< 5.0	0.66 J	2.8 J	< 20.0	3.1 J	**8,000**	120	270	87.0	1,400	-
	2002 02 (Summer)		< 50.0	4.6 J	82.0	< 2.0	< 5.0	< 10.0	< 10.0	**12.0**	< 10.0	< 3.0	590	< 0.20	< 20.0	< 20.0	**14.0 J**	< 5.0	< 2.0	< 10.0	< 37.0	< 100	**6,700**	120	280	89.0	1,600	< 0.010
M023-B	2006 01 (Spring)		< 1.0	< 5.0	**220**	0.45 J	< 5.0	**3.8 J**	0.84 J	< 10.0	-	0.16 J	**2,100**	< 0.20	1.6 J	< 20.0	< 5.0	**2.1 J**	< 5.0	< 10.0	< 20.0	< 100	**8,600**	130	390	130	2,300	-
	2005 02 (Summer)		< 1.0	3.8 J	**190**	< 2.0	< 5.0	< 10.0	1.1	1.5 J	-	< 3.0	**1,900**	< 0.20	0.44 J	1.9 J	**10.0**	< 5.0	0.59 J	< 10.0	**27.0**	< 100	**8,500**	100	290	94.0	1,800	-
	2004 04 (Winter)		0.90 J	**8.1**	**210**	< 2.0	< 5.0 UJ	2.0 J	1.1	1.7 J	-	0.16 J	**2,100**	< 0.20	0.37 J	2.6 J	**22.0**	< 5.0	< 5.0	1.6 J	**13.0 J**	2.9 J	**12,000**	130,000	380,000	120,000	2,100,000	-
	2004 02 (Summer)		< 1.0	4.7	**210**	< 1.0	< 1.0	2.4	1.3	1.1	-	0.099 J	**2,000**	0.089 J	0.44 J	2.2	< 1.0 J	< 1.0	0.20 J	< 10.0	< 1.0	< 50.0	**11,000**	130	350	110	2,300	-
	2003 04 (Winter)		< 5.0	< 50.0	**200**	< 4.0	< 5.0	< 10.0	< 10.5	< 10.0	-	< 10.0	**1,950**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**10,600**	119	354	128	2,340	-
	2003 02 (Summer)		< 50.0	< 50.0 UJ	**230**	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	-	< 10.0	**2,340**	< 0.40 UJ	< 50.0	3.9 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**11,900 J**	143	404	105	2,170	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements							Cyanide
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
M023-B	*2002 04 (Winter)*		< 50.0	7.3	**250**	< 2.0	< 5.0	< 10.0	1.1 J	1.5 J	-	*0.34 J*	**2,400**	*< 0.20*	*0.49 J*	*1.9 J*	**17.0**	< 5.0	< 2.0	1.4 J	< 20.0	*15.0 J*	**9,900**	140	400	130	2,500	-
	2002 02 (Summer)		< 50.0	5.3	**170**	< 2.0	< 5.0	**12.0**	< 10.0	< 10.0	< 10.0	< 3.0	**2,000**	< 0.20 J	< 20.0	< 20.0	**5.8**	< 5.0	< 2.0	5.8 J	< 20.0	< 100	**8,300**	120	350	110	2,100	0.010 J
M023-C	2006 01 (Spring)		< 1.0	< 5.0	**140**	0.49 J	< 5.0	1.5 J	< 1.0	1.5 J	-	< 3.0	460	< 0.20	2.2 J	1.7 J	**3.9 J**	**3.2 J**	< 500	< 10.0	< 20.0	< 100	480	120	280	96.0	2,300	-
	2005 02 (Summer)		< 1.0	< 5.0	**260**	< 2.0	< 5.0	**10.0**	1.1	0.97 J	-	< 3.0	**1,400**	< 0.20	0.36 J	**14.0 J**	**17.0**	< 5.0	< 5.0	2.5 J	**39.0**	3.2 J	**4,500**	110	290	87.0	1,700	-
	2004 04 (Winter)		0.79 J	5.0	**280**	< 2.0	< 5.0 UJ	1.5 J	1.0	1.8 J	-	0.22 J	**1,500**	< 0.20	1.0 J	3.3 J	**18.0**	< 5.0	< 5.0	1.8 J	**16.0 J**	8.0 J	**6,600**	*140,000*	*360,000*	*110,000*	*2,200,000*	-
	2004 02 (Summer)		0.075 J	2.9	**330**	< 1.0	< 1.0	2.4	1.2	1.6	-	0.13 J	**1,700**	< 0.20	0.90 J	1.8	< 1.0 J	< 5.0	< 1.0	1.6 J	< 20.0	0.88 J	**7,600 J**	140	350	110	2,200	-
	2003 04 (Winter)		< 5.0	< 50.0	**301**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**1,480**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**7,250**	127	350	115	2,160	-
	2003 02 (Summer)		< 50.0	< 50.0	**346**	< 4.0	< 5.0	1.3 J	< 10.0	1.7 J	-	< 10.0	**1,690**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**7,450 J**	150	389	112	1,980	-
	2002 04 (Winter)		< 50.0	5.0 J	**330**	< 2.0	< 5.0	< 10.0	0.94 J	1.5 J	-	0.37 J	**1,500**	< 0.20	0.57 J	1.4 J	**16.0**	< 5.0	< 2.0	1.4 J	< 20.0	5.4 J	**6,500**	130	340	100	2,000	-
	2002 02 (Summer)		< 50.0	2.3 J	**280**	< 2.0	< 5.0	**5.6 J**	0.94 J	3.3 J	< 10.0	< 3.0	**1,500**	< 0.20	< 20.0	< 20.0	**9.2**	< 5.0	< 2.0 UJ	< 10.0	< 20.0	4.7 J	**6,300**	120	340	98.0	2,100	< 0.010
M036-B	2006 01 (Spring)		< 1.0	< 5.0	**200**	0.50 J	< 5.0	1.9 J	1.1	< 10.0	-	< 3.0	260	< 0.20	1.1 J	< 20.0	< 5.0	**2.7 J**	**3.1 J**	< 10.0	< 20.0	< 100	**9,500**	110	360	120	2,500	-
	2005 02 (Summer)		*0.13 J*	*5.2*	***210***	< 2.0	< 5.0	2.6 J	1.4	1.2 J	-	< 3.0	270	< 0.20	< 20.0	1.5 J	**10.0 J**	< 5.0	< 5.0	2.3 J	< 20.0	< 100	**9,900**	110	360	110	2,500	-
	2004 04 (Winter)		0.70 J	**11.0**	**180 J**	< 2.0	< 5.0	2.7 J	1.5	2.7 J	-	0.32 J	250	< 0.20	0.23 J	4.8 J	**22.0**	< 5.0	< 5.0	2.3 J	**15.0 J**	15.0 J	**10,000**	110	360	110	2,700	-
	2004 02 (Summer)		< 1.0	**9.9**	**210**	< 2.0	< 5.0	< 10.0	1.7	< 10.0	-	0.25 J	270	0.056 J	< 20.0	< 20.0	**19.0 J**	< 5.0	< 1.0	6.6 J	8.5 J	8.2 J	**10,000**	110	360	120	2,500	-
	2003 04 (Winter)		< 5.0	5.2 J	**169**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	223	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**8,930**	90.9	315	114	2,310	-
	2003 02 (Summer)		< 50.0	**11.5 J**	**221**	< 4.0	< 5.0	*3.0 J*	*1.7 J*	*< 10.0*	-	< 10.0	*308*	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**12,100**	125	414	107 J	2,560	-
	2002 04 (Winter)		0.098 J	< 5.0	**190**	< 2.0	< 5.0	2.9 J	1.6 J	2.4 J	-	0.11 J	250	< 0.20	< 20.0	3.8 J	< 5.0	< 5.0	< 2.0	3.2 J	< 20.0	< 100	**9,700**	100	310	110	2,200	-
	2002 02 (Summer)		< 50.0	4.7 J	89.0	< 2.0	< 5.0	< 10.0	< 10.0	2.2 J	< 10.0	< 3.0 UJ	240	< 0.20	1.8 J	< 20.0	-	< 5.0	< 2.0	**9.7 J**	< 20.0	**210**	**1,900**	100	390	110	2,800	< 0.010
SWMU	M037-B	2006 01 (Spring)	< 1.0	< 5.0	**830**	0.42 J	< 5.0	2.1 J	0.19 J	0.74 J	-	< 3.0	**3,200**	< 0.20	2.2 J	< 20.0	< 5.0	**2.5 J**	**3.5 J**	< 10.0	< 20.0	< 100	**5,100**	210	250	57.0	1,100	-
	2005 02 (Summer)		0.43 J	4.1 J	**720**	< 2.0	< 5.0	2.0 J	0.57 J	< 10.0	-	< 3.0	**3,000 J**	< 0.20	< 20.0	4.1 J	**2.0 J**	< 5.0	< 5.0	*1.2 J*	***28.0***	*< 100*	***7,800***	*170*	*200*	47.0	930	-
	2004 04 (Winter)		< 1.0	6.7	**850**	< 2.0	< 5.0	1.1 J	0.43 J	1.6 J	-	0.13 J	**3,300**	< 0.20	< 20.0	1.9 J	**10.0**	< 5.0	< 5.0	0.87 J	7.8 J	3.6 J	**5,600**	220	260	65.0	1,300	-
	2004 02 (Summer)		< 1.0	4.3	**780**	< 2.0	< 5.0	< 10.0	0.46 J	< 10.0	-	0.064 J	**3,300**	0.059 J	< 20.0	< 20.0	**3.9 J**	< 5.0	< 1.0	4.7 J	< 20.0	< 100	**5,800**	230	270	61.0	1,300	-
	2003 04 (Winter)		< 5.0	< 50.0	**750**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**2,940**	< 0.40	**12.7 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**5,420**	192	237	58.2	1,090	-
	2003 02 (Summer)		< 50.0	< 50.0	**930**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	-	< 10.0	**3,810**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**7,290**	244	287	60.8 J	1,180	-
	2002 04 (Winter)		0.063 J	3.2 J	**800**	< 2.0	0.11 J	1.6 J	0.50 J	1.0 J	-	0.29 J	**3,100**	< 0.20	< 20.0	2.4 J	< 5.0	< 5.0	< 2.0	1.5 J	10.0 J	< 100	**6,400**	200	240	56.0	1,100	-
	2002 02 (Summer)		0.091 J	2.6 J	**650**	< 2.0	< 5.0	< 10.0	0.70 J	1.5 J	< 10.0	0.41 J	**3,300**	< 0.20	0.60 J	6.6 J	1.0 J	< 5.0	< 2.0	3.6 J	< 20.0	**420**	**6,500**	190	240	64.0	1,200	< 0.010
	M038-B	2006 01 (Spring)	0.17 J	5.6	95.0	< 2.0	< 5.0	2.8 J	2.5	< 10.0	-	< 3.0	**13,000**	< 0.20	< 20.0	2.8 J	**5.6**	**7.7**	< 5.0	< 10.0	< 20.0	30.0 J	160	**1,100**	1,600	190	6,900	-
	2005 02 (Summer)		0.12 J	< 5.0	**130**	< 2.0	< 5.0	0.77 J	3.6	**3.6 J**	-	0.29 J	**11,000 J**	< 0.20	2.2 J	6.7 J	**30.0 J**	< 5.0	< 5.0	2.9 J	**55.0**	< 100	**2,300 J**	**910**	1,400	180	5,800	-
	2004 04 (Winter)		1.4	**12.0**	120	< 2.0	< 5.0	0.69 J	3.6	**4.9 J**	-	0.061 J	**10,000**	< 0.20	1.9 J	**12.0 J**	< 5.0	< 5.0	< 5.0	2.0 J	**23.0**	1.3 J	**4,600**	**950 J**	1,500	190 J	5,800	-
	2004 02 (Summer)		< 1.0	5.4	120	< 2.0	**6.2**	< 10.0	3.3	< 10.0	-	0.18 J	**11,000**	< 0.20	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0 J	< 10.0	< 20.0	1.2 J	220	**1,000**	1,500	210	6,200	-
	2003 04 (Winter)		*< 5.0*	*< 50.0*	*86.0 J*	*< 4.0*	*< 5.0*	*< 10.0*	*< 10.0*	*< 10.0*	-	< 10.0 UJ	**8,950**	< 0.40	**15.7 J**	**14.7 J**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	205	**952**	1,460	223	6,040	-
	2003 02 (Summer)		< 500	< 500	**124 J**	< 40.0	< 50.0	< 100	**15.7 J**	< 100	-	< 100	**12,900**	< 0.40	< 500	< 200	< 200	< 100	< 50.0	< 500	< 200	< 2,000	< 1,000	**1,090**	1,780	233 J	6,070	-
	2002 04 (Winter)		0.11 J	< 5.0	97.0	< 2.0	< 5.0	2.2 J	**5.0 J**	**6.9 J**	-	0.15 J	**9,700**	< 0.20	< 20.0	**15.0 J**	< 5.0	< 5.0	< 2.0	2.9 J	< 20.0	< 100	**4,800**	**920**	1,400	180	< 0.50	-
	2002 02 (Summer)		< 50.0	< 5.0	80.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 3.0	**9,600**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	680	**940**	1,500	180	6,100	< 0.010
	M039-B	*2006 01 (Spring)*	0.13 J	**13.0**	51.0	0.67 J	0.62 J	< 10.0	**10.0**	1.2 J	-	0.27 J	**14,000**	*< 0.20*	3.3 J	***7.5 J***	***2.9 J***	***6.6***	***3.1 J***	*< 10.0*	*7.4 J*	*< 100 UJ*	*180*	***1,000***	*1,600*	130	7,100	-
	2005 02 (Summer)		< 1.0	< 5.0	53.0	< 2.0	< 5.0	< 10.0	**12.0**	**5.4 J**	-	< 3.0	**13,000**	< 0.20	3.9 J	**17.0 J**	**110**	< 5.0	0.11 J	2.3 J	**120**	5.1 J	**5,700**	**860**	1,100	130	5,300	-
	2004 04 (Winter)		0.13 J	**11.0**	52.0	< 2.0	< 5.0	0.93 J	**13.0**	**4.8 J**	-	0.44 J	**13,000**	< 0.20	2.7 J	**18.0 J**	< 5.0	< 5.0	< 5.0	2.5 J	**22.0**	3.1 J	**4,000 J**	**940**	1,500	140	6,400	-
	2004 02 (Summer)		0.20 J	< 1.0	57.0	< 1.0	< 1.0	1.1 J	**12.0**	**8.4**	-	0.12 J	**13,000**	< 0.20	2.9 J	**18.0**	< 1.0 J	< 5.0	< 1.0	2.1 J	< 20.0	3.1 J	190 J	**990**	1,500	160	7,300	-

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-6

Groundwater Sample Analytical Results at IR Site 2: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																			Common Rock-forming Elements						Cyanide
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium	Total Cyanide
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**50.0**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.15**
			BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**NA**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**NA**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.0010**
SWBZ	M039-B	2003 04 (Winter)		< 5.0	< 50.0	47.1 J	< 4.0	< 5.0	< 10.0	< 16.4	< 10.0	-	< 10.0	**10,400**	< 0.40	**17.3 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	187	**1,010**	1,540	172	6,960	-
		2003 02 (Summer)		< 500	< 500	60.5 J	< 40.0	< 50.0	< 100	**29.9 J**	< 100	-	< 100	**13,100**	< 0.40	< 500	< 200	< 200	**20.1 J**	< 5.0	< 500	< 200	< 2,000	< 1,000	**961**	1,670	173 J	6,800	-
		2002 04 (Winter)		0.17 J	< 5.0	65.0	< 2.0	0.37 J	1.5 J	**12.0**	**7.8 J**	-	0.051 J	**12,000**	< 0.20	< 20.0	**20.0**	< 5.0	< 5.0	< 2.0	2.4 J	< 20.0	< 100	**4,000**	**990**	1,500	150	< 0.50	-
		2002 02 (Summer)		0.10 J	< 5.0	57.0	< 2.0	< 5.0	< 10.0	**11.0**	< 10.0	< 10.0	< 3.0	**11,000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	4.0 J	190	**990**	1,500	130	6,900	< 0.010

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 4-

Groundwater Sample Analytical Results at IR Site 2: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	442-MW1	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M011-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M012-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M013-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 2: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M013-A	2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M014-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M016-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.38	< 0.75	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M017-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 04 (Winter)	< 0.47 UJ	< 0.94 UJ	< 0.47 UJ	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M018-A	2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-7

Groundwater Sample Analytical Results at IR Site 2: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	*0.50*
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	*0.030*
FWBZ	M018-A	2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 04 (Winter)	< 0.47 UJ	< 0.94 UJ	< 0.47 UJ	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M019-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	-
		2004 04 (Winter)	< 0.48 UJ	< 0.95 UJ	< 0.48 UJ	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	M020-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	-
		2004 04 (Winter)	< 0.49 UJ	< 0.97 UJ	< 0.49 UJ	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M021-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	**0.15 J**	-
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	-
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.94
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-1

Groundwater Sample Analytical Results at IR Site 2: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M022-A	2006 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.40 UJ	< 0.79 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	< 0.40 UJ	-
		2004 04 (Winter)	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M023-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
		2005 01 (Spring)	< 0.38 UJ	< 0.75 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	-
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M024-A	2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.38 UJ	< 0.76 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	< 0.38 UJ	-
		2004 04 (Winter)	< 0.49 UJ	< 0.97 UJ	< 0.49 UJ	< 0.49	< 0.49	< 0.49	< 0.49	-
		2004 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M024-E	2006 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	-
	M036-A	2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 01 (Spring)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-1

Groundwater Sample Analytical Results at IR Site 2: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	0.030
FWBZ	M036-A	2004 04 (Winter)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	**0.89**	< 0.48	< 0.48	< 0.48	**0.89**
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M037-A	2006 01 (Spring)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 01 (Spring)	< 0.39	< 0.78	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	-
		2004 04 (Winter)	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M037-E	2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	-
		2005 01 (Spring)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-
		2004 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.95
		2004 01 (Spring)	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	M038-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.38	< 0.77	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-
		2004 04 (Winter)	< 0.38	< 0.76	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	-
		2004 02 (Summer)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.99
		2004 01 (Spring)	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	M039-A	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	-
		2005 01 (Spring)	< 0.19	< 0.38	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-7

Groundwater Sample Analytical Results at IR Site 2: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs (Calculated)
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	*0.50*
		BV:	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	*0.030*
FWBZ	M039-A	2004 04 (Winter)	< 0.48 UJ	< 0.96 UJ	< 0.48 UJ	< 0.48	< 0.48	< 0.48	< 0.48	-
		2004 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.96
		2004 01 (Spring)	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47

Table 4-8

Groundwater Sample Analytical Results at IR Site 2: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																				
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event** **AWQC:**	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	442-MW1	*2006 01 (Spring)*	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	*< 0.050*	*< 0.050*	*< 0.50*	*< 0.90*
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	**0.014 J**	< 0.040	< 0.47	< 4.7
	M011-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	**0.0050 J**	< 0.10	< 0.10	< 0.10	< 0.10	**0.040 J**	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.0080 J**	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.010 J**	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	**0.030 J**	< 0.050	< 0.050	< 0.050	**0.010 J**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	**0.010 J**	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	*< 0.040*	*< 0.040*	*< 0.040*	*< 0.040*	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M012-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
	M013-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.041 J**	< 0.040	< 0.48	< 4.8
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M014-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	**0.011 J**	< 0.040	< 0.48	< 4.8
	M016-A	2006 01 (Spring)	*< 0.050*	*< 0.050*	*< 0.050*	*< 0.050*	*< 0.050*	*< 0.050*	*< 0.050*	***0.010 J***	*< 0.090*	***0.0090 J***	*< 0.090*	*< 0.050*	*< 0.090*	*< 0.090*	*< 0.090*	***0.010 J***	< 0.090	***0.0060 J***	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	**0.010 J**	**0.010 J**	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	**0.020 J**	**0.0060 J**	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.040 J**	< 0.090	< 0.090	**0.020 J**	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	**0.0070 J**	< 0.050	< 0.50	< 0.90
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.0080 J**	*< 0.050*	*< 0.50*	*< 1.0*
		2004 01 (Spring)	< 0.040	< 0.040	**0.058 J**	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M017-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.10	< 0.050	**0.010 J**	< 0.50 UJ	< 1.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-8

Groundwater Sample Analytical Results at IR Site 2: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																				
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M017-A	2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
	M018-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.0080 J**	< 0.050	< 0.10	< 0.10	**0.030 J**	**4.7**	**0.0030 J**	< 0.10	< 0.10	< 0.10	< 0.10 UJ	**0.030 J**	< 0.050	**0.030 J**	< 0.50	< 1.0
		2005 02 (Summer)	< 0.10 UJ	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20 UJ	< 0.20	< 0.20 UJ	**2.2**	< 0.10	< 0.20	< 0.20	-	< 0.20	< 0.20	< 0.10	< 0.10	< 1.0 UJ	< 1.9
		2005 01 (Spring)	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	**5.4**	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.8
		2004 04 (Winter)	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	**0.020 J**	< 0.090	< 0.20	< 0.20	< 0.20	**2.6**	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.090	< 0.090	< 0.90	< 1.9
		2004 02 (Summer)	< 0.20	< 0.20 J	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40 J	< 0.40	< 0.40	**2.3**	< 0.20	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.20	< 0.20	< 1.9	< 3.8
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	**8.5**	< 0.040	< 0.090	< 0.090	< 0.090	**0.080 J**	**0.033 J**	< 0.040	< 0.040	< 0.49	< 4.9
	M019-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.050	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	**0.014 J**	< 0.040	< 0.47	< 4.7
	M020-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.10	< 0.10 UJ	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50 UJ	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.050	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 4.8
	M021-A	2006 01 (Spring)	< 0.050	< 0.050	**0.010 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	**0.040 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.050	< 0.50 UJ	< 1.0 UJ
		2004 04 (Winter)	< 0.050	< 0.050	**0.0060 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	**0.036 J**	**0.015 J**	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
	M022-A	2006 01 (Spring)	< 0.050	**0.0050 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	**0.0090 J**	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	-	**0.010 J**	< 0.050	< 0.050	< 0.050	**0.0070 J**	< 0.050	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.10	-	< 0.050	< 0.50 UJ	< 1.0
		2005 01 (Spring)	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 2.5 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 2.5 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 5.0 UJ	< 2.5 UJ	< 2.5 UJ	< 25.0 UJ	< 50.0 UJ
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.0096 J**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 4.8
	M023-A	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	**0.020 J**	**0.020 J**	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	**0.0050 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 4.8	< 9.6
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.0070 J**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50 UJ	< 0.90 UJ
		2004 04 (Winter)	**0.010 J**	**0.020 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-8

Groundwater Sample Analytical Results at IR Site 2: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																				
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
M023-A	2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.0080 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.0040 J**	< 0.050	< 0.50	< 1.0
	2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
M024-A	2006 01 (Spring)		< 0.050	**0.020 J**	< 0.050	< 0.050	**0.0050 J**	< 0.050	**0.0050 J**	**0.030 J**	**0.010 J**	< 0.10	< 0.10	**0.0070 J**	< 0.10	< 0.10	**0.020 J**	< 0.10	< 0.10	**0.0070 J**	< 0.050	< 0.50	< 1.0
	2005 02 (Summer)		< 0.050	**0.010 J**	-	< 0.050	**0.0060 J**	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	**0.030 J**	< 0.10 UJ	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	**0.010 J**	**0.010 J**	**0.010 J**	< 0.050	< 0.50 UJ	< 1.0 UJ
	2005 01 (Spring)		< 0.050	< 0.050	**0.050 J**	< 0.050	< 0.050	< 0.050	**0.040 J**	< 0.10 UJ	< 0.10 UJ	**0.010 J**	< 0.10 UJ	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	**0.0090 J**	< 0.050	< 0.50 UJ	< 1.0 UJ
	2004 04 (Winter)		< 0.050	< 0.050	**0.090**	**0.010 J**	< 0.050	**0.0080 J**	**0.010 J**	< 0.10	**0.010 J**	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	**0.060 J**	< 0.10	< 0.10	**0.010 J**	**0.020 J**	< 0.50	< 1.0
	2004 02 (Summer)		< 0.050	< 0.050	**0.040 J**	< 0.050	< 0.050	**0.020 J**	**0.030 J**	< 0.10	**0.020 J**	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	2004 01 (Spring)		*< 0.040*	***0.032 J***	***0.16***	**0.044 J**	< 0.040	< 0.040	**0.032 J**	**0.056 J**	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	**0.18 J**	< 4.8
M024-E	2006 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
M036-A	2005 02 (Summer)		< 0.050	< 0.050	-	**0.0070 J**	**0.020 J**	**0.0050 J**	< 0.050	**0.0090 J**	< 0.10	**0.030 J**	< 0.10	< 0.050	**0.0070 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.0060 J**	< 0.50	< 1.0
	2005 01 (Spring)		< 0.050	**0.010 J**	< 0.050	< 0.050	**0.010 J**	< 0.050	**0.020 J**	**0.010 J**	**0.010 J**	**0.030 J**	< 0.10	**0.010 J**	< 0.050	**0.020 J**	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50 UJ	< 1.0
	2004 04 (Winter)		< 0.050	**0.020 J**	**0.20**	< 0.050	**0.010 J**	< 0.050	**0.010 J**	**0.010 J**	**0.010 J**	< 0.10	**0.010 J**	< 0.050	**0.020 J**	< 0.10	< 0.10	< 0.10	**0.030 J**	**0.040 J**	**0.0080 J**	< 0.50	< 1.0
	2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	**0.020 J**	**0.010 J**	**0.020 J**	< 0.10	**0.020 J**	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.020 J**	< 0.050	< 0.50	< 1.0
	2004 01 (Spring)		< 0.040	< 0.040	**0.17**	**0.12**	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	**0.022 J**	< 0.090	< 0.090	< 0.040	**0.048 J**	< 0.49	< 4.9
M037-A	*2006 01 (Spring)*		< 0.20	< 0.20	**0.10 J**	**0.030 J**	< 0.20	< 0.20	< 0.20	**0.050 J**	< 0.50	< 0.50	< 0.50	**0.050 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.8
	2005 02 (Summer)		< 0.050	**0.010 J**	**0.0090 J**	< 0.050	< 0.050	**0.010 J**	**0.010 J**	**0.020 J**	< 0.090	**0.020 J**	**0.010 J**	< 0.050	**0.010 J**	< 0.090	< 0.090	< 0.090	< 0.090	**0.010 J**	**0.0040 J**	< 0.50 UJ	< 0.90 UJ
	2005 01 (Spring)		< 0.050	< 0.050	**0.060 J**	< 0.050	**0.010 J**	**0.030 J**	**0.030 J**	**0.060 J**	< 0.10	**0.020 J**	< 0.10	< 0.050	**0.020 J**	< 0.10	< 0.10	< 0.10	< 0.10	**0.020 J**	< 0.050	< 0.50 UJ	< 1.0
	2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	**0.020 J**	< 0.050	**0.010 J**	**0.060 J**	< 0.10	**0.040 J**	< 0.10	< 0.050	**0.030 J**	**0.020 J**	< 0.10	< 0.10	**0.020 J**	**0.020 J**	< 0.050	< 0.50	< 1.0
	2004 02 (Summer)		< 0.050	< 0.050	**0.040 J**	< 0.050	< 0.050	**0.030 J**	< 0.050	**0.020 J**	< 0.090	**0.020 J**	< 0.090	**0.040 J**	**0.020 J**	< 0.090	**0.020 J**	< 0.090	< 0.090	**0.020 J**	< 0.050	< 0.50	< 0.90
	2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.23 J**	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	**0.082 J**	**0.038 J**	< 0.090	< 0.040	**0.018 J**	**0.28 J**	< 4.8
M037-E	2005 02 (Summer)		< 0.050	< 0.050	< 0.050	**0.0030 J**	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	2005 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50 UJ	< 1.0
	2004 04 (Winter)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
	2004 01 (Spring)		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
M038-A	2006 01 (Spring)		*< 0.20*	*< 0.20*	*< 0.20*	*< 0.20*	*< 0.20*	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.9
	2005 02 (Summer)		< 0.20	< 0.20	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	< 2.4	< 4.9
	2005 01 (Spring)		< 0.050	< 0.050	**0.020 J**	**0.030 J**	< 0.050	< 0.050	**0.040 J**	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	**0.030 J**	< 0.10	< 0.10	**0.010 J**	**0.090 J**	< 0.050	**0.20 J**	< 1.0
	2004 04 (Winter)		**0.020 J**	**0.030 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	**0.030 J**	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.030 J**	**0.020 J**	< 0.50	< 1.0
	2004 02 (Summer)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.020 J**	**0.060 J**	< 0.10	**0.030 J**	**0.060 J**	**0.040 J**	*< 0.050*	*< 0.10*	*< 0.10*	*< 0.10*	***0.030 J***	*< 0.10*	***0.020 J***	*< 0.050*	*< 0.50*	< 1.0
	2004 01 (Spring)		< 0.040	< 0.040	**0.20**	< 0.040	< 0.040	< 0.040	**0.091**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	**0.018 J**	**0.17 J**	< 4.9
M039-A	2006 01 (Spring)		< 0.050	< 0.050	**0.040 J**	**0.040 J**	**0.0070 J**	**0.030 J**	**0.0070 J**	< 0.10	**0.030 J**	< 0.10	< 0.10	**0.040 J**	**0.020 J**	< 0.10	< 0.10	**0.020 J**	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	2005 02 (Summer)		< 0.050	< 0.050	-	< 0.050	< 0.050	< 0.050	-	< 0.10	< 0.10	**0.030 J**	< 0.10	**0.0050 J**	**0.020 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.010 J**	< 0.50	< 1.0
	2005 01 (Spring)		< 0.20	< 0.20 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.20 UJ	< 0.20	< 2.4 UJ	< 4.8
	2004 04 (Winter)		**0.030 J**	< 0.050	**0.10 J**	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	**0.020 J**	< 0.10	**0.10 J**	< 0.050	**0.020 J**	< 0.10	**0.030 J**	**0.030 J**	**0.030 J**	**0.030 J**	**0.010 J**	< 0.50	< 1.0
	2004 02 (Summer)		< 0.050	< 0.050	**0.10 J**	**0.020 J**	< 0.050	**0.040 J**	**0.050 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.0090 J**	< 0.050	< 0.50	< 1.0
	2004 01 (Spring)		< 0.040	< 0.040	**0.25 J**	< 0.040	< 0.040	< 0.040	< 0.040	**0.080 J**	< 0.090	< 0.090	< 0.090	**0.36**	< 0.090	< 0.090	**0.22 J**	< 0.090	< 0.090	< 0.040	**0.20**	**0.17 J**	< 4.7

FWBZ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	*Protactinium 234 (901.1)*	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*
		MCL:	**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
442-MW1	*2006 01 (Spring)*		< 3.0 UJ	**7.1**	**0.55**	< 5.0	**0.55**	< 5.0	< 5.0	**1.3 J**	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
	2005 02 (Summer)		< 3.0 UJ	**11.1 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2005 01 (Spring)		< 3.0	< 3.0	**0.22 J**	< 5.0	**0.22**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 04 (Winter)		< 3.0	**5.4 J**	**0.37 J**	< 5.0	**0.37**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 02 (Summer)		< 3.0	**7.7**	< 0.53	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 999	< 10.0
	2004 01 (Spring)		< 1.9	**11.4**	**0.51**	< 0.98	**0.51**	< 5.6	-	< 0.34	< 124	< 26.1	< 47.8	< 9.1	< 6.3	< 195	< 726	< 187	**0.71**	< 0.16	**0.63**	< 11.6	< 1,340	< 10.6
	2003 04 (Winter)		**0.70**	**9.1**	**1.6**	**5.1**	**6.8**	-	-	< 1.8	< 178	< 49.5	< 222	< 28.0	< 27.0	< 185	< 2,370	< 221	-	-	-	**111**	< 193	< 15.2
	2003 03 (Fall)		< 2.1	**17.8**	< 0.74	< 3.2	-	-	-	**2.9**	< 354	< 73.9	< 129	< 24.0	< 58.6	< 178	< 1,010	< 141	-	-	-	**170**	< 119	< 24.1
	2003 02 (Summer)		< 2.6	**15.3 J**	**1.2**	< 4.6	**1.2**	-	-	< 2.0	< 261	< 65.1	< 159	< 22.2	**47.5**	< 174	< 1,930	< 155	-	-	-	< 6.2	< 741	< 31.5
	2003 01 (Spring)		**4.4 J**	**12.8**	< 1.1	< 4.0	-	-	-	< 1.8	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
	2002 04 (Winter)		**1.7**	**6.4**	**0.64**	-	**0.64**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2002 03 (Fall)		**3.1**	**12.8**	*< 0.63 UJ*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2002 02 (Summer)		**2.2**	**7.5**	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FWBZ	M011-A	2006 01 (Spring)	< 3.0 UJ	**17.0**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	**58.5 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**1.4**	-	**1.0**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	**0.58**	< 5.0	**0.58**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 15.5	**19.9**	**0.25 J**	< 5.0	**0.25**	-	-	-	-	-	-	-	-	*< 500*	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 47.8	**38.7 J**	**1.0**	< 5.0	**1.0**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 38.9	**102**	**1.6**	< 5.0	**1.6**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.55	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 7.5	**38.1**	**0.36**	**1.6**	**1.9**	< 3.0	-	**1.0**	< 98.9	< 16.2	< 28.5	< 5.3	< 3.9	< 179	< 425	< 91.4	**1.2**	< 0.25	**0.88**	< 7.0	< 228	< 6.2
		2003 04 (Winter)	< 20.2	**50.3 J**	< 0.85	**6.5**	**6.5**	-	-	**2.7**	< 55.0	< 38.9	< 144	< 16.0	< 32.1	< 188	< 2,320	< 32.0	-	-	-	< 34.0	< 221	**43.8**
		2003 03 (Fall)	< 28.0	**86.3**	< 3.1	< 4.1	-	-	-	< 3.1	**598**	< 37.1	< 213	< 22.6	< 32.5	< 171	< 968	< 164	-	-	-	< 62.1	< 584	< 26.6
		2003 02 (Summer)	< 25.4	**79.4**	**2.5**	**6.8**	**9.4**	-	-	**4.1**	**449**	< 53.9	< 122	< 30.8	< 26.2	< 178	< 1,460	< 12.7	-	-	-	< 57.7	< 613	< 22.5
		2003 01 (Spring)	< 16.1 UJ	**47.8**	< 1.1	< 5.1	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 177	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 26.9 UJ	**91.2**	**2.9**	-	**2.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**3.5**	**56.4**	< 0.57 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**1.4**	**112**	**0.68**	-	**0.68**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M012-A	2006 01 (Spring)	< 3.0	< 3.0	***0.25 J***	< 5.0	**0.25**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.068 J**	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**8.8 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	< 3.0	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 3.0	**3.6 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.0	< 3.0	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 0.39	**5.2**	< 0.12	< 0.76	-	< 4.3	-	< 0.81	< 51.7	< 19.9	< 35.7	< 12.1	< 4.9	< 179	< 545	< 90.2	< 0.21	< 0.26	< 0.21	< 9.5	< 113	< 8.7
		2003 04 (Winter)	< 1.2	**5.8 J**	< 0.60	< 3.9	-	-	-	< 1.5	< 87.0	< 48.5	< 141	< 3.1	< 41.8	< 189	< 1,390	< 91.0	-	-	-	< 34.0	< 351	< 24.0
		2003 03 (Fall)	< 1.2	**6.7**	< 1.6	< 3.3	-	-	-	< 2.5	**476**	< 68.6	< 125	< 15.9	< 31.7	< 172	< 1,000	< 557	-	-	-	< 51.9	< 677	< 35.7
		2003 02 (Summer)	< 0.84	**1.6 J**	< 0.43	< 3.5	-	-	-	< 3.0	< 268	< 44.0	< 209	< 29.6	< 47.4	< 175	< 1,850	< 94.1	-	-	-	*< 25.7*	*< 583*	*< 36.0*
		2003 01 (Spring)	< 0.51 UJ	**4.0**	**1.3**	**8.1**	**9.5**	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 161	< 1,190	< 178	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 1.5 UJ	**7.2**	< 1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 3.5	< 13.0	< 0.67 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	*Protactinium 234 (901.1)*	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
	Units:		PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	*PCI/L*	PCI/L	*PCI/L*	*PCI/L*	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
	MCL:		**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M012-A	2002 02 (Summer)		**3.2**	**11.0**	< 0.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M013-A	2006 01 (Spring)		< 3.0	**8.0**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.41**	-	**0.42**	< 10.0	< 750	< 10.0
	2005 02 (Summer)		< 3.0	**5.8 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2005 01 (Spring)		< 3.0	**4.3**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 04 (Winter)		< 3.0	**4.0 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 02 (Summer)		< 3.0	**4.6**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
	2004 01 (Spring)		< 0.41	**3.9**	< 0.14	< 0.72	-	< 6.1	-	< 0.89	< 156	< 25.7	< 50.0	< 9.2	< 6.7	< 177	< 752	< 191	< 0.19	< 0.23	< 0.19	< 10.8	< 1,160	< 17.2
	2003 04 (Winter)		< 0.29	**6.2**	< 0.74	< 3.5	-	-	-	< 2.1	< 295	< 61.4	< 72.4	< 11.0	< 43.2	< 186	< 2,280	< 293	-	-	-	< 117	< 229	< 22.4
	2003 03 (Fall)		< 0.40	**3.6**	< 1.4	< 3.0	-	-	-	< 2.1	< 209	< 33.6	< 189	< 25.9	< 34.2	< 171	< 2,210	< 213	-	-	-	< 58.2	< 574	< 27.7
	2003 02 (Summer)		< 0.63	**2.3 J**	**1.5**	< 4.9	**1.5**	-	-	< 2.0	< 299	< 38.3	< 164	< 14.9	< 28.7	< 174	< 1,050	< 120	-	-	-	< 4.9	< 639	< 33.4
	2003 01 (Spring)		**1.3 J**	**3.6**	< 1.2	< 4.8	-	-	-	< 1.8	< 201	< 52.0	< 197	< 29.2	< 24.0	< 180	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
	2002 04 (Winter)		< 0.61 UJ	**5.2**	< 0.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2002 03 (Fall)		< 1.4	**6.7**	< 0.67 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2002 02 (Summer)		< 7.9	**11.6**	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M014-A	2006 01 (Spring)		< 3.0 UJ	< 3.0	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
	2005 02 (Summer)		< 3.0	< 3.0	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2005 01 (Spring)		< 3.0	< 3.0	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 04 (Winter)		< 3.0	**1.4 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 02 (Summer)		< 3.0	< 3.0	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 994	< 10.0
	2004 01 (Spring)		< 0.25	**2.7**	< 0.11	< 0.89	-	< 3.3	-	< 0.40	< 34.4	< 13.3	< 23.9	< 4.6	< 3.2	< 182	< 350	< 60.4	< 0.19	< 0.23	< 0.19	< 6.4	< 118	< 6.1
	2003 04 (Winter)		< 0.26	**2.5**	< 0.98	< 3.5	-	-	-	< 2.0	< 295	< 40.8	< 206	< 29.0	< 51.0	< 186	< 951	< 62.0	-	-	-	< 188	< 292	< 33.8
	2003 03 (Fall)		< 0.23 UJ	**7.7 J**	< 1.7	< 3.0	-	-	-	< 2.2	< 299	< 62.5	< 120	< 25.1	< 45.8	< 184	< 832	< 216	-	-	-	< 61.2	< 624	< 43.1
	2003 02 (Summer)		*< 0.44*	***1.1 J***	***3.0***	< 5.5	**3.0**	-	-	< 2.2	< 235	< 49.5	< 206	< 18.5	**35.9**	< 174	< 1,050	< 125	-	-	-	< 15.2	< 586	< 13.5
	2003 01 (Spring)		< 0.46 UJ	**3.1**	< 1.0	< 3.5	-	-	-	< 2.3	< 201	< 52.0	< 197	< 27.0	< 24.0	< 180	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
	2002 04 (Winter)		< 0.34 UJ	**2.6**	< 0.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2002 03 (Fall)		< 1.4	**3.9**	< 0.68 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2002 02 (Summer)		< 2.1	< 12.0	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M016-A	2005 02 (Summer)		< 3.0	**89.1**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2005 01 (Spring)		< 37.9	**78.9**	**0.16 J**	< 5.0	**0.16**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 04 (Winter)		< 63.9	**97.6 J**	**0.38 J**	< 5.0	**0.38**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
	2004 02 (Summer)		< 21.0	**92.0**	< 0.21	< 0.79	-	< 7.3	< 8.7	**0.91**	< 141	< 46.0	< 114	< 13.7	< 8.1	*< 380*	-	*< 99.0*	*< 0.20*	*< 0.20*	*< 0.20*	*< 21.0 UJ*	-	< 19.0 UJ
	2004 01 (Spring)		< 9.5	**90.6**	< 0.19	**2.5**	**2.5**	< 5.0	-	< 0.92	< 108	< 20.8	< 36.3	< 6.6	< 4.9	< 265	< 579	< 103	**0.19**	< 0.034	**0.16**	< 10.3	< 322	< 8.2
	2003 04 (Winter)		< 47.7	**152**	< 0.52	< 4.5	-	-	-	< 2.1	**449**	< 48.9	< 196	< 26.7	< 51.5	< 171	< 1,290	< 316	-	-	-	**70.1**	< 786	< 22.0
	2003 03 (Fall)		< 39.2	**177**	< 2.0	< 4.7	-	-	-	< 3.3	< 215	< 30.9	< 181	< 29.0	< 28.4	< 335	< 1,540	< 176	-	-	-	< 44.7	< 715	< 31.3
	2003 02 (Summer)		< 14.4	**42.5 J**	**3.0**	< 5.5	**3.0**	-	-	< 1.9	< 5.9	< 65.1	< 207	< 14.3	< 50.8	< 191	< 1,650	< 199	-	-	-	< 45.1	< 741	< 19.4
	2003 01 (Spring)		< 5.2 UJ	**80.3**	< 1.2	< 3.4	-	-	-	< 2.0	< 201	< 52.0	< 197	< 27.0	< 24.0	**382**	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
	2002 04 (Winter)		< 54.9 UJ	**231**	< 1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2002 03 (Fall)		**1.4**	***86.7***	*< 0.56*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FWBZ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-A	2002 02 (Summer)	1.2	66.9	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M016-E	2006 01 (Spring)	< 3.0 UJ	76.2	5.9	< 5.0	5.9	< 5.0	< 5.0	1.4 J	72.7 J	< 20.0	< 50.0	< 15.0	< 10.0	3,620	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	110	< 0.50	< 5.0	0.41	-	-	-	-	-	-	-	-	3,070	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 43.4	55.3	0.41 J	< 5.0	0.99	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 45.2	83.4 J	0.99	< 5.0	0.99	-	-	-	-	-	-	-	-	404 J	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 21.0	106	< 0.37	< 1.2	-	< 9.7	< 10.7	< 0.44	< 160	< 48.0	< 117	< 15.2	< 11.2	3,290	-	< 95.0	< 0.20	< 0.20	< 0.20	< 17.0 UJ	-	< 22.0 UJ
		2004 01 (Spring)	< 27.6	123	1.7	2.2	3.9	-	-	< 2.4	< 148	< 32.1	< 65.2	< 8.3	< 20.0	3,810	< 788	< 89.9	-	-	-	< 18.5	< 245	23.4
		2003 04 (Winter)	< 38.5	144	1.2	< 3.6	1.2	-	-	< 2.2	< 276	< 46.5	< 201	< 26.3	< 40.9	498	< 1,620	< 231	-	-	-	46.2	< 712	< 26.1
		2003 03 (Fall)	< 26.0	166 J	< 3.0	8.0	8.0	-	-	< 2.6	< 354	< 72.0	< 175	< 12.7	< 31.4	804	< 1,600	< 270	-	-	-	< 33.3	< 685	< 40.9
		2003 02 (Summer)	< 17.0	103 J	1.9	< 5.5	1.9	-	-	< 2.2	< 54.8	< 63.8	< 193	< 16.3	< 56.4	3,200	< 960	< 58.9	-	-	-	< 57.2	< 600	< 33.2
		2003 01 (Spring)	< 27.3 UJ	130	1.9	< 6.5 UJ	1.9	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	3,530	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 43.9 UJ	235	2.0	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	2.8	124	0.61	-	0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.4	63.0	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M017-A	2006 01 (Spring)	< 3.0 UJ	137	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	153	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	3.0	-	2.4	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	267	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 57.5	115	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 45.1 UJ	175 J	0.70	< 5.0	0.70	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 29.0	139	< 0.22	< 0.98	-	< 8.0	< 10.8	< 0.77	207	< 39.0	< 117	< 12.2	< 7.8	< 380	-	< 144	1.4	< 0.20	0.97	< 25.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 42.8	< 98.8	< 0.18	< 1.2	-	< 4.4	-	< 0.78	< 63.0	< 18.0	< 31.9	< 6.8	< 4.5	< 195	< 568	< 86.7	0.82	< 0.038	0.64	< 8.7	146	< 8.9
		2003 04 (Winter)	< 31.9	288	< 1.3	7.0	7.0	-	-	< 2.7	445	< 44.7	< 218	< 37.0	< 40.3	< 187	< 1,720	< 194	-	-	-	< 20.0	< 197	< 21.4
		2003 03 (Fall)	< 58.2	235 J	< 1.8	< 3.9	-	-	-	< 2.4	< 188	< 61.8	< 175	< 22.4	< 47.5	< 184	< 1,470	< 216	-	-	-	< 69.1	< 803	< 33.8
		2003 02 (Summer)	< 45.0	276 J	< 0.54	< 3.9	-	-	-	< 2.1	< 235	< 66.8	< 167	< 19.9	< 57.7	< 176	< 1,780	< 158	-	-	-	< 9.1	< 592	< 30.4
		2003 01 (Spring)	< 65.6 UJ	233	< 0.98	< 3.2	-	-	-	< 1.8	518	< 52.0	< 197	< 27.0	< 24.0	< 189	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 59.9 UJ	291	2.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 8.7	306	< 0.74 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.9	693	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M018-A	2005 02 (Summer)	< 3.0	152	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 48.6	88.7	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 45.4 UJ	160 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 24.0	141	< 0.18	< 0.82	-	< 8.0	< 11.3	< 0.56	< 230	< 43.0	< 122	< 19.0	< 12.1	< 380	-	< 150	1.8	< 0.20	1.3	< 23.0 UJ	-	< 20.0 UJ
		2004 01 (Spring)	< 20.4	127	< 0.17	< 1.1	-	< 2.1	-	< 0.89	146	< 9.3	< 16.5	< 3.3	< 2.5	< 188	< 294	< 60.6	0.46	< 0.031	0.43	< 4.2	< 269	< 3.9
		2003 04 (Winter)	< 30.3	141	< 0.96	< 3.2	-	-	-	< 2.8	522	< 78.9	< 185	< 17.0	< 33.0	< 188	< 1,980	< 210	-	-	-	< 31.2	< 192	< 20.1
		2003 03 (Fall)	< 31.6	201 J	< 1.00	< 3.4	-	-	-	< 2.0	< 395	< 33.9	< 121	< 23.6	< 30.6	< 183	< 1,760	< 387	-	-	-	< 51.6	< 619	< 25.5
		2003 02 (Summer)	< 29.4	144 J	1.5	< 4.8	1.5	-	-	< 2.2	< 264	< 51.4	< 213	< 25.0	< 43.3	< 173	< 1,820	< 176	-	-	-	< 0.74	< 619	< 26.0
		2003 01 (Spring)	< 31.7 UJ	134	< 0.67	< 3.5	-	-	-	< 1.9	< 267	< 52.0	< 197	< 27.0	< 24.0	< 191	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 38.2 UJ	161	< 0.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	10.8	178	< 0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M018-A	2002 02 (Summer)	**2.6**	< 130	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M018-E	2006 01 (Spring)	< 3.0 UJ	**307**	**1.5**	< 5.0	**1.5**	< 5.0	< 5.0	< 5.0	**307**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.48**	-	**0.25**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**431**	**1.3 J**	< 5.0	**1.3**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 53.6 UJ	**245 J**	**1.8**	**3.5 J**	**5.4**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 57.0	**305**	**1.6**	**2.8**	**4.4**	< 9.3	< 10.4	< 1.1 UJ	< 260	< 37.0	< 127	< 15.3	< 11.3	< 380	-	< 94.0	**0.43**	< 0.20	**0.43**	< 25.0 UJ	-	< 13.8 UJ
		2003 04 (Winter)	< 73.3	**440**	**3.4**	< 2.9	**3.4**	-	-	< 2.3	**842**	< 68.8	< 132	< 26.0	< 47.6	< 188	< 2,420	< 345	-	-	-	< 30.0	< 217	**32.6**
		2003 02 (Summer)	< 91.4	**318 J**	**2.4**	< 4.3	**2.4**	-	-	< 2.1	< 99.1	< 53.6	< 153	< 16.3	< 53.9	< 260	< 1,790	< 223	-	-	-	< 12.0	< 705	< 24.0
		2002 04 (Winter)	< 104 UJ	**315**	**2.3**	-	**2.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 29.0	**3,430**	**0.65**	-	**0.65**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M019-A	2005 02 (Summer)	< 3.0 UJ	**245 J**	**0.47 J**	**2.1 J**	**2.5**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 181	**281 J**	**0.24**	**2.7**	**2.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 64.9 UJ	**171 J**	**1.3**	**5.0 J**	**6.2**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 43.0	**215**	< 0.32	**2.0**	**2.0**	< 8.7	< 10.3	< 0.34	< 210	< 50.0	< 112	< 16.6	< 12.9	< 380	-	< 102	< 0.75	< 0.20	**0.49**	< 22.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 52.4	**197**	< 0.12	**1.4**	**1.4**	< 4.9	-	< 0.29	**279**	< 22.8	< 37.8	< 7.2	< 5.1	< 189	< 584	< 107	**1.1**	< 0.16	**0.80**	< 9.3	< 346	< 8.7
		2003 04 (Winter)	< 50.8	**257**	**1.7**	< 3.2	**1.7**	-	-	< 1.8	**749**	< 59.3	< 204	< 17.2	< 50.7	< 171	< 1,760	< 284	-	-	-	**211**	< 765	< 34.0
		2003 03 (Fall)	< 74.0	**243 J**	< 1.1	< 3.6	-	-	-	< 1.8	< 245	< 37.1	< 185	< 24.0	< 42.7	< 186	< 1,190	< 196	-	-	-	< 51.6	< 674	< 52.7
		2003 02 (Summer)	< 42.4	**211 J**	< 0.99	< 5.1	-	-	-	< 2.4	**568**	< 48.7	< 47.1	< 18.3	< 58.5	< 175	< 1,150	< 50.3	-	-	-	< 16.4	< 713	< 33.7
		2003 01 (Spring)	< 36.7 UJ	**212**	< 0.95	< 3.4	-	-	-	< 1.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1,190	< 184	-	-	-	**124**	< 602	< 34.0
		2002 04 (Winter)	< 78.8 UJ	**320**	**2.5**	-	**2.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 13.0	**407**	**0.66**	-	**0.66**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 5.7	**319**	< 0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M019-E	2006 01 (Spring)	< 3.0 UJ	**246 J**	**0.48 J**	< 5.0	**0.48**	< 5.0	< 5.0	< 5.0	**299**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**1.6**	-	**1.4**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	**138 J**	**224**	**0.79 J**	**4.0 J**	**4.8**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 105 UJ	**187 J**	**1.1**	**4.9 J**	**5.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 54.0	**193**	**0.68**	**2.7**	**3.3**	< 9.2	< 12.8	< 0.50 UJ	< 160	< 51.0	< 135	< 16.0	< 11.8	< 380	-	< 98.0	**1.5**	< 0.20	**1.1**	< 25.0 UJ	-	< 21.0 UJ
		2003 04 (Winter)	< 67.5	**165**	**1.5**	< 4.5	**1.5**	-	-	< 2.0	**919**	< 63.7	< 163	< 14.7	< 50.0	< 170	< 2,060	< 205	-	-	-	**62.4**	< 578	< 20.0
		2003 02 (Summer)	< 70.0	**149 J**	**2.6**	< 4.4	**2.6**	-	-	< 2.6	**520**	< 70.6	< 104	< 26.0	< 38.3	< 174	< 2,040	< 196	-	-	-	< 17.0	< 656	< 40.1
		2002 04 (Winter)	< 74.7 UJ	**254**	**2.5**	-	**2.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**7.9**	**178**	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M020-A	2005 02 (Summer)	**33.8 J**	**293**	**3.9 J**	< 5.0	**3.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 45.7	< 71.6	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 90.9 UJ	**105 J**	**0.68**	**3.7 J**	**4.4**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 28.0	**153**	< 0.29	< 0.88	-	< 8.2	< 10.1	< 0.57	< 172	< 38.0	< 119	< 11.6	< 10.0	< 380	-	< 125	**0.46**	< 0.20	**0.59**	< 24.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 7.2	**71.9**	< 0.14	< 1.1	-	< 5.0	-	< 0.28	**121**	< 21.7	< 34.5	< 6.9	< 5.1	< 189	< 621	< 106	**0.40**	< 0.17	**0.36**	< 9.8	< 337	< 8.5
		2003 04 (Winter)	< 33.9	**234 J**	**1.3**	**5.1**	**6.4**	< 7.4	-	< 0.76	**216**	< 37.4	< 61.3	< 11.4	< 7.3	< 196	< 1,070	< 168	**0.61**	< 0.026	**0.53**	< 13.1	< 529	< 14.3
		2003 03 (Fall)	< 39.9	**256 J**	< 1.3	< 4.6	-	-	-	< 1.7	< 385	< 56.4	< 156	< 17.4	< 46.7	< 188	< 1,550	< 290	-	-	-	< 68.8	< 788	< 36.4
		2003 02 (Summer)	< 28.4 UJ	**180**	< 1.4	< 5.6	-	-	-	< 2.3	**1,050**	**70.3**	< 135	< 40.8	< 30.7	< 197	< 2,420	< 164	-	-	-	< 30.8	< 794	< 23.3
		2003 01 (Spring)	< 18.2 UJ	**118**	< 1.0	< 3.2	-	-	-	< 2.1	< 201	< 52.0	< 197	< 27.0	< 24.0	< 186	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M020-A	2002 04 (Winter)	< 55.1 UJ	**285**	**2.4**	-	**2.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**4.0**	**109**	**1.1**	-	**1.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 5.7	**454**	< 0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M020-E	2006 01 (Spring)	< 3.0	**270**	**2.1**	**3.4 J**	**5.4**	< 5.0	< 5.0	< 5.0	**294**	< 20.0	< 50.0	< 15.0	< 10.0	**450 J**	-	< 250	**0.36**	-	**0.24**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	< 3.0	**1.1 J**	**4.6 J**	**5.8**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 205	< 343	**2.3**	**5.8**	**8.0**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 87.9 UJ	**227 J**	**2.3**	**5.6**	**7.8**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 67.0	**193**	**1.5**	**5.2**	**6.7**	< 6.4	< 6.9	< 0.59 UJ	**292**	< 23.0	< 94.0	< 11.8	< 6.5	< 380	-	< 93.0	< 0.40	< 0.20	< 0.41	< 22.0 UJ	-	< 10.3 UJ
		2004 01 (Spring)	< 52.5	**195**	**5.1**	**4.7**	**9.8**	-	-	< 1.7	< 136	< 21.4	< 86.8	< 8.8	< 32.2	< 183	< 946	< 138	-	-	-	< 14.7	< 167	< 23.0
		2003 04 (Winter)	< 47.8	**238 J**	**2.7**	**4.3**	**7.0**	< 6.5	-	< 0.89	**263**	< 27.3	< 43.7	< 9.3	< 6.4	< 189	< 713	< 191	**0.48**	< 0.027	**0.44**	< 12.2	< 1,360	< 11.3
		2003 03 (Fall)	< 62.5	**255 J**	< 2.7	**5.9**	**5.9**	-	-	< 2.0	**424**	< 65.0	< 154	< 24.5	< 52.1	< 185	< 1,470	< 230	-	-	-	< 79.3	< 558	< 50.4
		2003 02 (Summer)	< 41.0	**248**	**3.5**	**11.8**	**15.3**	-	-	< 2.7	**1,090**	< 64.6	< 166	< 38.6	< 33.0	< 174	< 1,290	< 129	-	-	-	< 34.2	< 526	< 38.7
		2003 01 (Spring)	< 103 UJ	**262**	**1.9**	< 4.7	**1.9**	-	-	< 1.7	**453**	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 64.9 UJ	**294**	**2.5**	-	**2.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 18.0	**407**	**0.75**	-	**0.75**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.6**	**546**	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M021-A	2005 02 (Summer)	< 3.0 UJ	**116 J**	**0.70**	< 5.0	**0.70**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 35.8	< 67.7	**0.23**	< 5.0	**0.23**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 35.3	**157 J**	**0.92**	< 5.0	**0.92**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 27.0	**137**	< 0.46	< 1.2	-	< 8.5	< 10.6	< 0.60	< 170	< 45.0	< 180	< 13.7	< 10.2	< 380	-	< 140	< 0.46	< 0.20	< 0.23	< 26.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 11.4	**77.4**	< 0.11	< 1.1	-	< 4.1	-	< 0.33	< 121	< 18.9	< 32.9	< 6.3	< 4.3	< 189	< 580	< 131	< 0.16	< 0.17	< 0.18	< 7.8	< 794	< 7.3
		2003 04 (Winter)	< 57.1	< 140 UJ	**1.4**	**2.7**	**4.1**	< 6.8	-	< 0.57	< 185	< 28.9	< 53.4	< 9.7	< 6.8	< 188	< 851	< 113	**0.26**	< 0.028	**0.21**	< 14.5	< 248	< 13.7
		2003 03 (Fall)	< 117	**397 J**	**2.0**	< 3.7	**2.0**	-	-	< 1.6	**544 J**	< 50.7	< 157	< 26.7	< 24.8	< 181	< 1,280	< 220	-	-	-	< 68.4	< 734	< 37.7
		2003 02 (Summer)	< 23.3	**179**	< 1.4	< 5.0	-	-	-	< 2.4	< 243	< 40.8	< 149	< 23.4	< 38.3	< 174	< 2,030	< 85.4	-	-	-	< 33.4	< 766	< 19.5
		2003 01 (Spring)	< 32.2 UJ	**85.7**	< 0.67	< 2.9	-	-	-	< 1.8	< 243	< 52.0	< 197	< 27.0	< 24.0	< 189	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 10.2	**56.8**	**1.8**	-	**1.8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**4.8**	**158**	< 0.74 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.9**	**127**	< 0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M021-E	2006 01 (Spring)	< 3.0	**180**	**1.1**	**2.3 J**	**3.4**	< 5.0	< 5.0	< 5.0	**210**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.24**	-	**0.20 J**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**202 J**	**1.4**	**3.5 J**	**4.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 200	< 332	**1.4**	< 5.0	**1.4**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 34.0	**83.3 J**	**1.9**	**3.4 J**	**5.3**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 45.0	**193**	**1.3**	**2.9**	**4.2**	< 9.2	< 10.0	< 0.98	< 172	< 34.0	< 126	< 14.9	< 12.3	< 380	-	< 98.0	< 0.47	< 0.20	< 0.25	< 20.0 UJ	-	< 19.4 UJ
		2004 01 (Spring)	< 43.0	**193**	**5.2**	**5.0**	**10.2**	-	-	< 2.3	< 107	< 31.6	< 77.6	< 10.6	< 13.1	< 185	< 627	< 69.2	-	-	-	**21.7**	< 232	**20.6**
		2003 04 (Winter)	< 36.9	**180 J**	**2.1**	**3.7**	**5.8**	< 2.3	-	< 0.66	**209**	< 10.3	< 17.4	< 3.7	< 3.8	< 193	< 284	< 59.7	**0.34**	< 0.028	**0.27**	< 4.8	< 206	< 4.3
		2003 03 (Fall)	< 44.8	**187 J**	< 2.6	**5.0**	**5.0**	-	-	< 2.3	**523**	< 35.6	< 109	< 22.2	< 56.3	< 183	< 1,420	< 195	-	-	-	< 53.3	< 682	< 54.6
		2003 02 (Summer)	< 56.6 UJ	**159**	**3.4**	< 5.6	**3.4**	-	-	< 1.8	< 180	< 55.1	< 197	< 18.1	< 32.6	< 175	< 1,250	< 235	-	-	-	< 25.4	< 641	< 26.9
		2003 01 (Spring)	< 71.5 UJ	**193**	**1.9**	**5.2**	**7.1**	-	-	< 2.6	**488**	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M021-E	2002 04 (Winter)	< 52.1 UJ	**184**	**4.1**	-	**4.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 3.4	**211**	< 0.59 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.4**	**182**	< 0.62	-	**1.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M022-A	2005 02 (Summer)	< 3.0	**158**	**0.66 J**	< 5.0	**0.66**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 125	< 149	**0.67**	< 5.0	**0.67**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 33.6 UJ	**154 J**	**0.81**	< 5.0	**0.81**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 25.0	**138**	**0.49**	**1.6**	**2.1**	< 7.1	< 9.0	< 0.50	< 181	< 29.0	< 107	< 14.6	< 10.0	< 380	-	< 87.0	< 0.20	< 0.20	< 0.20	< 16.9 UJ	-	< 18.0 UJ
		2004 01 (Spring)	< 14.8	**111**	**0.36**	**1.8**	**2.1**	< 6.0	-	**0.73**	**243**	< 21.8	< 39.9	< 7.6	< 9.8	< 196	< 601	< 113	< 0.12	< 0.15	< 0.12	< 10.0	< 350	< 8.9
		2003 04 (Winter)	< 20.4	**111 J**	**1.4**	**2.4**	**3.8**	< 4.1	-	< 0.56	**229**	< 18.1	< 32.1	< 5.8	< 4.0	< 201	< 441	< 120	**0.36**	< 0.030	**0.33**	< 7.0	< 876	< 6.7
		2003 03 (Fall)	< 26.0	***255 J***	< 2.3	< 3.8	-	-	-	< 2.3	**522**	< 33.2	< 127	< 28.0	< 45.9	< 182	< 1,460	< 377	-	-	-	< 66.0	< 873	< 31.2
		2003 02 (Summer)	< 29.0	**176**	< 2.0	< 3.6	-	-	-	< 2.0	< 315	< 72.4	< 160	< 27.7	< 45.8	< 319	< 1,200	< 61.3	-	-	-	< 27.3	< 539	< 31.3
		2003 01 (Spring)	< 41.4 UJ	**143**	< 1.1	< 2.6	-	-	-	< 2.1	**452**	< 52.0	< 197	< 27.0	< 24.0	< 188	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 49.5 UJ	**166**	**1.6**	-	**1.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**1.9**	**220**	< 0.72 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 5.7	**205**	**0.49**	-	**0.49**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M022-E	2006 01 (Spring)	< 3.0 UJ	**193 J**	**2.1 J**	**27.8**	**29.9**	< 5.0	< 5.0	< 5.0	**220**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**2.1**	-	**2.0**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**178 J**	**2.1**	**9.5**	**11.6**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 208	< 356	**1.5**	**4.8**	**6.3**	-	-	-	-	-	-	-	-	**3,190**	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 53.8	**56.5**	**1.8**	**13.8**	**15.6**	< 5.0	< 5.0	< 5.0	**207**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**1.5**	-	**1.6**	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 59.4	**233**	**10.3**	**9.9**	**20.2**	-	-	< 2.8	< 141	< 45.7	< 39.8	< 8.6	< 13.2	< 182	< 502	< 99.4	-	-	-	**23.8**	< 258	< 15.8
		2003 04 (Winter)	< 29.7	**169 J**	**3.8**	**11.0**	**14.8**	< 4.9	-	< 0.59	< 152	< 24.0	< 39.2	< 7.6	< 5.4	< 192	< 591	< 86.4	**2.2**	**0.11**	**2.4**	< 11.3	< 104	< 10.5
		2003 03 (Fall)	< 0.31	**2.6 J**	**3.4**	**10.5**	**13.9**	-	-	< 2.1	< 370 UJ	< 52.4	< 204	< 16.6	< 31.5	< 184	< 1,250	< 194	-	-	-	< 47.6	< 627	< 23.8
		2003 02 (Summer)	< 33.7	**182**	**3.7**	**14.8**	**18.5**	-	-	< 2.3	**723**	< 62.4	< 197	< 26.2	< 31.3	< 175	< 2,120	< 67.3	-	-	-	< 54.1	< 748	< 37.0
		2003 01 (Spring)	< 34.2 UJ	**181**	**2.3**	**10.5**	**12.8**	-	-	< 2.2	**434**	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 50.6 UJ	**197**	**2.3**	-	**2.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 5.3	**141**	**0.61 J**	-	**0.61**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**3.8**	**190**	**2.9**	-	**2.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-A	2005 02 (Summer)	< 3.0	**179 J**	**0.59 J**	**2.0 J**	**2.6**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 41.4	< 68.7	***0.23***	*< 5.0*	***0.23***	-	-	-	-	-	-	-	-	**3,250**	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 34.7	**174 J**	**0.66**	< 5.0	**0.66**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 33.0	**168**	< 0.20	< 1.1	-	< 9.7	< 10.6	< 0.83	< 180	< 44.0	< 130	< 16.1	< 12.4	< 380	-	< 142	**0.39**	< 0.20	**0.38**	< 26.0 UJ	-	< 22.0 UJ
		2004 01 (Spring)	< 12.3	**120**	< 0.18	< 1.1	-	< 3.7	-	< 0.75	**193**	< 17.5	< 30.4	< 5.8	< 4.1	< 187	< 486	< 120	< 0.038	< 0.044	**0.068**	< 7.2	< 755	< 6.9
		2003 04 (Winter)	< 39.6	**152 J**	**0.80**	< 1.4	**0.80**	< 8.1	-	< 0.55	< 191	< 32.9	< 53.3	< 20.0	< 7.0	< 194	< 869	< 162	***0.63***	*< 0.031*	***0.56***	< 15.1	< 486	< 13.9
		2003 03 (Fall)	< 73.5	**244 J**	< 0.76	< 3.7	-	-	-	< 2.0	**767**	< 58.4	< 167	< 24.7	< 43.9	< 182	< 1,950	< 177	-	-	-	< 58.5	< 798	< 36.0
		2003 02 (Summer)	< 33.7	**247**	< 1.5	< 3.2	-	-	-	< 1.6	**1,220**	< 54.5	< 232	< 20.4	< 51.2	< 172	< 804	< 95.6	-	-	-	**64.8**	< 649	< 27.8
		2003 01 (Spring)	< 16.3 UJ	**187**	**2.0**	< 4.9	**2.0**	-	-	< 1.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 172	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 65.6 UJ	**256**	**1.9**	-	**1.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**1.7**	**604**	< 0.71 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: *Detected analyte*

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M023-A	2002 02 (Summer)	< 1.4	**237**	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-E	2006 01 (Spring)	< 3.0 UJ	**110 J**	**0.66 J**	< 5.0	**0.66**	< 5.0	< 5.0	< 5.0	**93.8 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**0.42**	-	**0.40**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**144**	**1.4 J**	**4.7 J**	**6.1**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 96.4	< 158	**0.73**	< 5.0	**0.73**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 31.1	**85.9 J**	**2.2**	**4.9 J**	**7.0**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 34.0	**219**	**1.3**	**4.1**	**5.4**	< 8.3	< 11.1	< 0.81	< 157	< 47.0	< 141	< 19.0	< 13.5	< 380	-	< 220	< 0.20	< 0.20	< 0.20	< 18.0 UJ	-	< 25.0 UJ
		2004 01 (Spring)	< 37.7	**264 J**	**5.5**	**3.7**	**9.1**	-	-	< 1.8	< 121	< 34.6	< 70.7	< 9.7	< 25.4	< 184	< 811	< 128	-	-	-	< 27.9	< 259	< 16.8
		2003 04 (Winter)	< 47.4	**207 J**	< 2.4	< 5.2	-	-	-	< 2.0	< 321	< 38.7	< 146	< 18.0	< 37.9	< 182	< 1,450	< 125	-	-	-	< 38.0	< 189	**39.4**
		2003 03 (Fall)	< 56.5	**309 J**	**2.5**	**7.7**	**10.2**	-	-	< 2.5	**403**	< 72.8	< 164	< 22.6	< 40.8	< 181	< 1,300	< 158	-	-	-	< 59.9	< 733	< 38.9
		2003 02 (Summer)	< 35.8	**237**	**2.9**	**10.4**	**13.3**	-	-	< 1.9	**549**	< 41.7	< 184	< 19.3	< 38.0	< 174	< 313	< 74.9	-	-	-	< 27.3	< 673	< 44.3
		2003 01 (Spring)	< 80.1 UJ	**170**	< 1.7	< 6.0	-	-	-	< 1.9	< 201	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 64.4 UJ	**206**	**4.5**	-	**4.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**1.1**	**185**	< 0.71 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 6.3	< 220	**2.0**	-	**2.0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M024-A	2005 02 (Summer)	< 3.0	**30.1 J**	< 0.50 J	**2.6 J**	**2.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 3.0	**35.2 J**	**0.40**	< 5.0	**0.40**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 10.3 UJ	**45.2 J**	**0.25 J**	< 5.0	**0.25**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 3.5	**56.0**	< 0.34	< 1.1	-	< 9.0	< 10.7	< 0.63	< 130	< 31.0	< 125	< 14.4	< 10.5	< 380	-	< 132	< 0.20	< 0.20	< 0.20	< 26.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 2.7	**48.4**	< 0.22	< 1.4	-	< 7.9	-	< 0.35	< 151	< 32.5	< 56.9	< 11.0	< 8.7	< 187	< 935	< 159	< 0.14	< 0.17	< 0.14	< 13.6	< 494	< 12.6
		2003 04 (Winter)	< 5.5	**43.7 J**	< 0.61	< 3.9	-	-	-	< 1.9	< 280	< 60.5	< 189	< 16.0	< 25.3	< 180	< 2,210	< 272	-	-	-	< 45.0	< 257	< 21.2
		2003 03 (Fall)	< 6.6	**48.2 J**	< 0.66	< 4.6	-	-	-	< 2.4	< 105 UJ	< 49.6	< 160	< 25.1	< 45.5	< 182	< 1,250	< 209	-	-	-	< 56.5	< 797	< 44.8
		2003 02 (Summer)	< 7.2	**59.2**	< 1.6	< 4.1	-	-	-	< 2.3	< 40.0	< 55.0	< 140	< 38.1	< 281	< 179	< 851	< 173	-	-	-	< 101	< 124	< 21.0
		2003 01 (Spring)	< 3.9 UJ	**48.3**	< 0.80	< 3.4	-	-	-	< 2.6	< 201	< 52.0	< 197	< 27.0	< 24.0	< 171	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 2.9 UJ	**36.0**	< 1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**0.99**	**49.8**	< 0.75 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.6**	< 130	< 0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M024-E	2006 01 (Spring)	< 3.0 UJ	**12.6 J**	< 0.50 UJ	**2.3 J**	**2.3**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**21.9 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	*< 3.6*	**12.3 J**	*< 0.50*	*< 5.0*	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 5.1	**28.7 J**	**0.24 J**	< 5.0	**0.24**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 6.0	**28.3**	< 0.27	< 1.2	-	< 8.9	< 11.2	< 0.62	< 160	< 51.0	< 118	< 16.5	< 11.2	< 380	-	< 89.0	< 0.39	< 0.20	< 0.24	< 25.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)	< 3.0	**25.3**	**2.5**	< 1.1	**2.5**	-	-	< 2.6	< 136	< 34.5	< 79.7	< 12.8	< 17.0	< 178	< 935	< 98.0	-	-	-	**30.6**	< 217	< 17.1
		2003 04 (Winter)	< 4.7	**18.5 J**	< 0.53	< 4.1	-	-	-	< 1.7	*< 130*	*< 50.0*	< 223	*< 21.0*	*< 27.0*	< 184	< 1,250	< 46.0	-	-	-	< 19.0	< 183	**44.8**
		2003 03 (Fall)	< 9.1	**23.7 J**	**1.4**	**6.0**	**7.4**	-	-	< 1.9	< 288	< 69.3	< 60.2	< 28.6	< 73.7	< 182	< 964	< 142	-	-	-	< 60.2	< 764	< 26.7
		2003 02 (Summer)	< 4.2	**28.3**	< 2.0	< 3.6	-	-	-	< 2.7	< 110	< 66.0	< 38.4	< 18.1	< 169	< 179	< 1,530	< 220	-	-	-	< 48.0	< 114	< 78.0
		2003 01 (Spring)	< 6.5 UJ	**38.3**	< 0.89	< 4.1	-	-	-	< 1.9	< 201	< 52.0	< 197	< 15.8	< 24.0	< 172	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 2.4 UJ	**24.1**	< 0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**0.98**	**178**	< 0.75 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M024-E	2002 02 (Summer)	1.1	57.8	< 0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M036-A	2005 02 (Summer)	< 3.0	55.4 J	7.1 J	2.1 J	9.1	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 20.3	39.8 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 13.5	32.8 J	0.54	< 5.0	0.54	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 24.6	30.4	< 0.64	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2004 01 (Spring)	< 6.2	33.5	< 0.18	2.0	2.0	< 3.0	-	< 0.72	87.0	< 11.7	< 22.7	< 4.4	< 3.1	< 206	< 351	< 58.0	< 0.028	< 0.034	< 0.028	< 6.0	< 57.2	< 5.8
		2003 04 (Winter)	< 19.0	115 J	< 0.95	< 5.1	-	-	-	< 1.8	< 239	< 44.4	< 189	< 15.4	48.0	< 187	< 2,100	< 221	-	-	-	< 15.0	< 302	23.8
		2003 03 (Fall)	< 12.9	90.1	< 1.1	< 2.5	-	-	-	< 2.2	< 309	< 35.4	< 118	< 18.8	< 60.4	< 171	< 1,390	< 427	-	-	-	< 46.4	< 620	< 36.9
		2003 02 (Summer)	< 13.1	64.3	1.0	< 4.1	1.0	-	-	< 1.8	< 102	< 24.0	< 135	< 14.0	< 227	< 283	< 1,370	< 126	-	-	-	< 21.0	< 103	< 58.0
		2003 01 (Spring)	< 7.9 UJ	46.3	< 0.56	< 4.6	-	-	-	< 2.0	< 201	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 16.3	84.0	1.2	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	4.6	78.0	< 0.63 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.1	132	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M036-E	2006 01 (Spring)	< 3.0	113	0.96	< 5.0	0.96	< 5.0	< 5.0	< 5.0	113	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	171	1.2 J	< 5.0	1.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 137	< 225	1.3	2.7	4.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 51.6 UJ	103 J	1.3	4.0 J	5.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 34.7	32.1	1.3	< 5.0	1.3	< 5.0	< 5.0	< 5.0	< 132	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 803	< 10.0
		2004 01 (Spring)	< 35.9	262	3.3	4.7	8.0	-	-	< 2.6	< 175	< 33.1	< 52.1	< 7.5	< 28.4	< 179	< 694	< 77.3	-	-	-	< 18.4	< 170	< 19.8
		2003 04 (Winter)	< 39.1	185 J	< 2.0	< 6.4	-	-	-	< 2.0	< 223	< 66.6	< 128	< 3.3	< 24.8	< 179	< 1,210	< 107	-	-	-	< 14.0	< 349	36.8
		2003 03 (Fall)	< 43.5	160 J	< 2.4	< 4.6	-	-	-	< 1.8	< 228	< 53.3	< 143	< 18.2	< 27.4	< 185	< 1,030	< 294	-	-	-	< 37.2	< 702	37.4
		2003 02 (Summer)	< 45.0	425	< 2.4	< 5.8	-	-	-	< 2.8	< 84.0	< 76.0	< 32.0	< 20.0	< 237	< 180	< 1,840	< 177	-	-	-	< 41.0	< 134	< 45.0
		2003 01 (Spring)	< 59.3 UJ	158	1.9	< 4.5	1.9	-	-	< 1.7	< 201	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 44.1	165	1.3	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	8.3	129	< 0.63 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	5.8	235	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M037-A	2005 02 (Summer)	< 3.0 UJ	127 J	2.4 J	1.3 J	3.7	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 17.1	110	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 16.8	20.6 J	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 13.0	117	< 0.35	< 1.5	-	< 7.9	< 9.4	< 0.60	< 146	< 49.0	< 100	< 14.5	< 12.5	< 380	-	< 135	< 0.20	< 0.20	< 0.20	< 22.0 UJ	-	< 19.0 UJ
		2004 01 (Spring)	< 5.0	63.8	< 0.19	< 1.3	-	< 8.5	-	< 0.91	< 215	< 32.0	< 46.5	< 10.0	< 8.0	< 259	< 881	< 159	< 0.028	< 0.034	< 0.028	< 14.7	< 503	< 13.2
		2003 04 (Winter)	< 20.0	123 J	< 1.1	< 5.1	-	-	-	< 2.1	< 337	< 40.6	< 164	< 4.3	48.4	< 235	< 1,340	< 73.0	-	-	-	< 31.0	< 121	< 37.3
		2003 03 (Fall)	< 19.5	171	< 1.9	5.9	5.9	-	-	< 2.5	< 351	< 41.7	< 30.7	< 27.6	< 37.3	< 311	< 2,010	< 118	-	-	-	< 60.9	< 470	< 41.3
		2003 02 (Summer)	< 14.3	128	< 0.92	< 3.0	-	-	-	< 1.9	< 58.5	< 6.4	< 55.8	< 24.2	< 7.4	< 315	< 1,490	< 239	-	-	-	< 30.2	< 131	< 48.2
		2003 01 (Spring)	< 14.5 UJ	93.6	< 0.73	< 4.2	-	-	-	< 2.1	< 201	< 52.0	< 197	< 27.0	< 24.0	< 301	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 17.3	124	0.79	-	0.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	4.1	124	0.71 J	-	0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	2.9	405	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	**NA**	**NA**	**5.0**	**NA**	**NA**	**8.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**20,000**	**NA**	**NA**	**NA**	**20.0**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M037-E	2006 01 (Spring)	< 3.0	**198**	**1.5**	**4.6 J**	**6.0**	< 5.0	< 5.0	< 5.0	**229**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**185 J**	**1.2 J**	**4.0 J**	**5.2**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 134	< 215	**1.9**	**5.6**	**7.5**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 53.5	**45.5 J**	**1.6**	< 5.0	**1.6**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 56.0	**174**	**1.5**	**4.0**	**5.5**	< 8.4	< 9.6	< 0.36	< 174	< 39.0	< 127	< 11.0	< 9.9	< 380	-	< 135	< 0.32	< 0.20	< 0.20	< 23.0 UJ	-	< 22.0 UJ
		2004 01 (Spring)	< 29.3	**133**	**1.0**	**5.2**	**6.3**	< 3.8	-	< 1.2	**213**	< 17.4	< 28.0	< 5.7	< 4.1	< 198	< 491	< 91.7	< 0.027	< 0.033	< 0.027	< 8.1	< 247	< 7.0
		2003 04 (Winter)	< 70.9	**200 J**	**3.1**	**7.9**	**11.0**	-	-	< 1.7	< 198	< 74.1	< 135	< 27.3	< 54.5	< 178	< 1,510	< 244	-	-	-	< 36.0	< 209	**28.7**
		2003 03 (Fall)	< 77.3	**201**	< 3.2	**9.1**	**9.1**	-	-	< 2.3	**420**	< 32.6	< 155	< 30.5	< 34.2	< 169	< 2,060	< 244	-	-	-	< 61.2	< 713	< 28.7
		2003 02 (Summer)	< 60.8	**199**	**2.2**	**7.8**	**10.0**	-	-	< 2.2	< 60.9	< 15.6	< 61.7	< 12.9	< 29.9	< 169	< 1,760	< 211	-	-	-	< 3.5	< 105	< 31.9
		2003 01 (Spring)	< 55.8 UJ	**196**	< 1.0	< 4.5	-	-	-	< 1.8	< 284	< 52.0	< 197	< 27.0	< 24.0	< 191	< 1,190	< 184	-	-	-	< 70.4	< 602	< 34.0
		2002 04 (Winter)	< 56.8	**206**	**2.1**	-	**2.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	**18.6**	**230**	**3.1 J**	-	**3.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**11.0**	**170**	< 0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M038-A	2005 02 (Summer)	< 3.0	**118**	**1.4**	**2.9 J**	**4.3**	-	-	-	-	-	-	-	-	**482 J**	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 51.1	**492**	**0.58**	< 5.0	**0.58**	-	-	-	-	-	-	-	-	**750**	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 23.8	< 15.0	**0.37 J**	< 5.0	**0.37**	-	-	-	-	-	-	-	-	**922**	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 23.0	**75.9**	-	-	-	-	-	< 5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 01 (Spring)	< 23.2	**151**	< 0.18	**2.0**	**2.0**	-	-	-	-	-	-	-	-	**844**	-	-	**0.12**	< 0.031	**0.11**	-	-	-
		2003 01 (Spring)	< 11.1 UJ	**91.8**	< 0.59	< 2.7	-	-	-	< 1.8	< 370	< 52.0	< 197	< 27.0	< 24.0	**846**	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 12.3	**146**	< 0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 1.7	**354**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M038-E	2006 01 (Spring)	< 3.0	**136**	**2.0**	**6.3**	**8.2**	< 5.0	< 5.0	< 5.0	**187**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**143 J**	**2.6 J**	**6.1**	**8.6**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 119	**265**	**2.3**	**3.7 J**	**6.0**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 26.6	**110**	**2.5**	**4.9 J**	**7.4**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 45.0	**233**	**1.9**	**3.7**	**5.6**	< 7.8	< 10.5	< 0.54	< 160	< 43.0	< 107	< 14.5	< 11.7	< 380	-	< 160	< 0.20	< 0.20	< 0.20	< 24.0 UJ	-	< 20.0 UJ
		2004 01 (Spring)	< 50.6	**335 J**	**5.5**	**6.3**	**11.8**	-	-	< 2.1	< 163	< 18.9	< 93.4	< 8.0	< 25.5	< 248	< 610	< 89.0	-	-	-	< 10.7	< 236	< 20.2
		2003 04 (Winter)	< 59.6	**190 J**	**3.4**	**7.4**	**10.8**	-	-	< 1.6	< 190	< 46.6	< 129	< 6.9	**44.0**	< 186	< 1,990	< 109	-	-	-	< 35.5	< 131	< 52.0
		2003 03 (Fall)	< 103	**372 J**	**5.8**	**8.1**	**14.0**	-	-	< 2.2	**472**	< 47.9	< 77.1	< 21.3	< 34.4	< 184	< 826	< 290	-	-	-	< 51.5	< 738	< 30.3
		2003 02 (Summer)	< 46.9	**251**	**3.4**	**6.5**	**9.9**	-	-	< 3.9	< 47.0	< 90.0	< 80.0	< 21.0	< 274	< 177	< 1,650	< 195	-	-	-	< 49.0	< 89.5	< 87.0
		2003 01 (Spring)	< 86.1 UJ	**234**	< 1.3	**6.4**	**6.4**	-	-	< 1.8	< 234	< 52.0	< 197	< 27.0	< 24.0	< 190	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)	< 54.4	**236**	**2.6**	-	**2.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)	< 2.6	**312**	**0.85**	-	**0.85**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 6.3	**162**	**0.73**	-	**0.73**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M039-A	2006 01 (Spring)	< 3.0	**51.8**	**0.19 J**	< 5.0	**0.19**	< 5.0	< 5.0	< 5.0	**57.1 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**61.2 J**	**20.9 J**	< 5.0	**20.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 4.5	**55.4 J**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 4.8 UJ	**56.7 J**	**0.25 J**	< 5.0	**0.25**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M039-A	2004 02 (Summer)		< 5.6	**51.0**	< 0.23	< 0.70	-	< 7.8	< 9.7	< 0.56	< 122	< 32.0	< 110	< 10.8	< 7.8	< 380	-	< 135	< 0.20	< 0.20	< 0.20	< 23.0 UJ	-	< 21.0 UJ
		2004 01 (Spring)		< 3.5	**65.7**	< 0.18	**1.9**	**1.9**	< 4.6	-	< 0.77	< 100	< 17.7	< 35.6	< 6.9	< 5.1	< 190	< 576	< 91.3	< 0.033	< 0.040	< 0.033	< 9.3	< 205	< 9.1
		2003 04 (Winter)		< 7.6	**68.5 J**	< 0.92	< 4.7	-	-	-	**3.4**	< 176	< 71.5	< 161	< 21.0	< 42.0	< 256	< 1,320	< 270	-	-	-	< 24.0	< 109	**35.4**
		2003 03 (Fall)		< 7.3	**70.3**	< 1.4	< 4.0	-	-	-	< 2.5	**427**	< 69.7	< 192	< 40.4	< 41.5	< 351	< 1,560	< 216	-	-	-	< 49.2	< 784	< 35.7
		2003 02 (Summer)		< 5.8	**70.1**	< 0.59	< 5.2	-	-	-	< 1.7	< 73.5	< 4.9	< 23.0	< 8.8	< 8.4	< 512	< 1,580	< 32.0	-	-	-	< 14.3	< 134	< 33.9
		2003 01 (Spring)		< 6.3 UJ	**57.7**	< 0.55	< 3.0	-	-	-	< 2.3	< 278	< 52.0	< 197	< 27.0	< 24.0	< 198	< 1,190	< 184	-	-	-	< 36.0	< 602	< 34.0
		2002 04 (Winter)		< 3.9 UJ	**74.5**	**0.94**	-	**0.94**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 03 (Fall)		**1.3**	**65.0**	< 0.39 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		**1.1**	**78.2**	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M010-B	2006 01 (Spring)		< 3.0 UJ	**146**	**0.26 J**	< 5.0	**0.26**	< 5.0	< 5.0	**5.3**	**173**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0 UJ	**50.1 J**	**0.55**	**1.7 J**	**2.3**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 25.8	**21.6 J**	**0.48 J**	< 5.0	**0.48**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 38.9	**125**	< 0.50	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 920	< 10.0
		2003 04 (Winter)		*< 15.0*	**161**	*< 1.5*	< 2.9	-	-	-	< 2.7	< 217	< 82.7	< 209	< 29.0	< 38.7	< 186	< 1,400	< 131	-	-	-	< 135	< 111	< 29.6
		2003 02 (Summer)		< 36.1	**152**	< 0.82	< 4.4	-	-	-	< 1.8	< 93.9	< 23.1	< 148	< 17.2	< 27.9	< 170	< 109	< 188	-	-	-	< 23.6	< 152	< 32.6
		2002 04 (Winter)		< 28.9 UJ	**105**	**1.4**	-	**1.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		< 3.8	**138**	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SWBZ	M012-B	2006 01 (Spring)		< 3.0	**32.7**	**0.76**	**2.7 J**	**3.4**	< 5.0	< 5.0	< 5.0	**173**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	*< 250*	**3.6**	-	***2.8***	< 10.0	< 750	*< 10.0*
		2005 02 (Summer)		< 3.0	< 3.0	**0.80**	**3.5 J**	**4.3**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 54.2	**63.5 J**	**1.2**	**3.7 J**	**4.9**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 79.4	< 73.4	**1.9**	< 5.0	**1.9**	< 5.0	< 5.0	< 5.0	< 140	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**3.7**	-	**2.0**	< 10.0	< 750	< 10.0
		2003 04 (Winter)		< 69.3	< 101 UJ	< 0.94	< 4.9	-	-	-	< 1.6	< 227	< 43.2	< 170	< 9.3	< 35.4	< 181	< 1,820	< 184	-	-	-	< 31.0	< 128	< 36.2
		2003 02 (Summer)		< 46.0	**161**	**1.8**	< 4.7	**1.8**	-	-	< 1.8	< 81.5	< 14.7	< 62.7	< 16.8	< 15.8	< 169	< 934	< 231	-	-	-	< 2.3	< 88.0	< 28.0
		2002 04 (Winter)		< 58.9 UJ	**142**	**2.1**	-	**2.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		**8.1**	**106**	**0.80**	-	**0.80**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M013-C	2006 01 (Spring)		< 3.0	**196**	**0.55**	< 5.0	**0.55**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**7.1**	-	**5.8**	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0	< 3.0	**0.88**	**1.9 J**	**2.8**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 57.8	< 30.0	**1.2**	< 5.0	**1.2**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 67.2	< 50.4	< 0.60	< 5.0	-	< 5.0	< 5.0	< 5.0	< 115	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**5.5**	-	**4.3**	< 10.0	< 750	< 10.0
		2003 04 (Winter)		< 38.6	**170**	**1.6**	**4.0**	**5.6**	-	-	< 1.9	< 247	< 67.6	< 134	< 27.0	< 34.5	< 187	< 2,140	< 218	-	-	-	< 207	< 184	< 35.0
		2003 02 (Summer)		< 48.1	**527 J**	**2.7**	< 4.8	**2.7**	-	-	< 2.5	< 351	< 58.1	< 68.4	< 32.0	< 55.4	< 174	< 1,010	< 210	-	-	-	< 24.1	< 740	< 20.1
		2002 04 (Winter)		< 62.9 UJ	< 78.2	**2.0**	-	**2.0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)		**11.4**	**193**	< 0.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M014-B	2006 01 (Spring)		< 3.0	< 3.0	**0.43 J**	< 5.0	**0.43**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**5.3**	-	**4.1**	< 10.0	< 750	< 10.0
		2005 02 (Summer)		< 3.0	< 3.0	**0.63**	< 5.0	**0.63**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)		< 50.6	< 27.2	**0.69**	< 5.0	**0.69**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)		< 51.9	**238**	< 0.56	< 5.0	-	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**4.8**	-	**3.9**	< 10.0	< 750	< 10.0
		2003 04 (Winter)		< 40.8	**111**	< 1.9	< 3.2	-	-	-	< 2.2	< 186	< 39.4	< 220	< 30.0	< 38.0	< 186	< 2,120	< 114	-	-	-	**200**	< 223	< 20.2

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: *Detected analyte*

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	*Uranium 238 (908.0)*	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	**15.0**	**50.0**	NA	NA	**5.0**	NA	NA	**8.0**	NA	NA	NA	NA	NA	**20,000**	NA	NA	NA	**20.0**	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M014-B	2003 02 (Summer)	< 49.7	**236 J**	**1.5**	< 5.6	**1.5**	-	-	< 2.5	< 336	< 69.7	< 123	< 15.1	< 50.1	< 172	< 1,210	< 153	-	-	-	< 11.0	< 768	< 37.2
		2002 04 (Winter)	< 49.6 UJ	< 61.9	**2.4**	-	**2.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**11.2**	**9.4**	< 0.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M016-B	2006 01 (Spring)	< 3.0 UJ	**194**	**0.47 J**	< 5.0	**0.47**	< 5.0	< 5.0	< 5.0	**144**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	**11.5**	-	**9.3**	< 10.0	< 750	< 10.0
		2005 02 (Summer)	**55.2 J**	**145 J**	**0.46 J**	< 5.0	**0.46**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 55.9	**32.5 J**	**0.40 J**	< 5.0	**0.40**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 45.0	**154**	**0.42**	**1.8**	**2.2**	< 7.4	< 10.1	< 0.61 UJ	< 145	< 31.0	< 112	< 15.8	< 9.2	< 380	-	< 137	**11.1**	**0.36**	**8.2**	< 21.0 UJ	-	< 21.0 UJ
		2003 04 (Winter)	< 36.4	**123**	**1.9**	< 4.2	**1.9**	-	-	< 2.2	**548**	< 71.6	< 174	< 24.0	< 30.0	< 188	< 2,080	< 200	-	-	-	< 16.0	< 189	< 36.6
		2003 02 (Summer)	< 66.9	**311 J**	**1.2**	< 5.8	**1.2**	-	-	< 2.3	< 19.4	< 56.0	< 223	< 27.1	< 68.0	< 174	< 1,230	< 163	-	-	-	< 55.5	< 613	< 25.0
		2002 04 (Winter)	< 62.6 UJ	**131**	< 1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**21.0**	**203**	**0.84**	-	**0.84**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M020-B	2006 01 (Spring)	< 3.0	**70.4**	**0.46 J**	< 5.0	**0.46**	< 5.0	< 5.0	< 5.0	< 100	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**66.8**	**0.60 J**	< 5.0	**0.60**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	*< 19.8 UJ*	***52.1 J***	***0.63***	*< 5.0*	***0.63***	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 12.4	**63.0**	< 0.38	< 1.1	-	< 7.1	< 8.8	< 0.62	< 146	< 48.0	< 108	< 12.8	< 10.9	< 380	-	< 85.0	< 0.23	< 0.20	< 0.20	< 23.0 UJ	-	< 12.6 UJ
		2003 04 (Winter)	< 9.8	**66.4 J**	**0.80**	**1.5**	**2.3**	< 3.7	-	< 0.61	**105**	< 15.3	< 27.1	< 5.4	< 3.6	< 192	< 420	< 90.6	< 0.047	< 0.029	**0.069**	< 9.3	< 229	< 6.3
		2003 02 (Summer)	< 10.1	**96.7**	< 1.2	< 4.2	-	-	-	< 2.0	**623**	< 45.7	< 120	< 27.6	< 47.0	< 175	< 1,970	< 0.10	-	-	-	< 64.6	< 580	< 24.3
		2002 04 (Winter)	< 18.8 UJ	**71.1**	**0.95**	-	**0.95**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2002 02 (Summer)	**2.4**	**51.7**	**0.82**	-	**0.82**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M021-C	2006 01 (Spring)	< 3.0	**72.8**	**0.27 J**	< 5.0	**0.27**	< 5.0	< 5.0	< 5.0	**73.4 J**	< 20.0	< 50.0	< 15.0	< 10.0	**499 J**	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**78.2**	< 0.50	< 5.0	-	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 8.7	**70.6 J**	**0.52**	< 5.0	**0.52**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 14.0	**68.0**	< 0.41	< 1.8	-	< 9.7	< 10.7	< 0.60	< 152	< 50.0	< 146	< 15.8	< 12.3	< 380	-	< 106	< 0.20	< 0.20	< 0.20	< 24.0 UJ	-	< 20.0 UJ
		2003 04 (Winter)	< 6.1	**71.4 J**	**0.58**	< 1.1	**0.58**	< 5.1	-	< 0.64	< 114	< 19.9	< 36.2	< 7.3	< 4.8	< 193	< 554	< 104	< 0.025	< 0.031	< 0.025	< 8.9	< 334	< 9.4
		2003 02 (Summer)	< 15.3	**95.4**	< 1.3	< 3.5	-	-	-	< 2.3	< 260	< 65.2	< 141	< 22.4	< 28.5	< 210	< 2,160	< 250	-	-	-	**114**	< 550	< 28.8
		2002 04 (Winter)	< 10.3 UJ	**76.6**	< 1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.0	**257**	< 0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-B	2006 01 (Spring)	< 3.0	**82.6**	**0.70**	< 5.0	**0.70**	< 5.0	< 5.0	< 5.0	**134**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	**92.1 J**	**0.74 J**	**4.4 J**	**5.2**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 12.1	**72.2 J**	**1.1**	**4.6 J**	**5.8**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 19.4	**49.0**	**0.88**	< 5.0	**0.88**	< 5.0	< 5.0	< 5.0	< 109	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.50	-	< 0.50	< 10.0	< 750	< 10.0
		2003 04 (Winter)	< 16.1	**85.8 J**	< 1.2	< 3.7	-	-	-	< 1.8	**353**	< 33.0	< 181	< 18.8	< 42.7	< 178	< 1,310	< 164	-	-	-	< 28.0	< 177	< 43.6
		2003 02 (Summer)	< 13.2	**103**	< 1.1	< 2.8	-	-	-	< 1.9	**533**	< 63.4	< 176	< 29.4	< 52.1	< 174	< 1,420	< 68.4	-	-	-	< 27.9	< 785	< 18.8
		2002 04 (Winter)	< 17.6 UJ	**113**	**1.6**	-	**1.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.2	**144**	**0.89**	-	**0.89**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M023-C	2006 01 (Spring)	< 3.0	**66.6**	**0.45 J**	< 5.0	**0.45**	< 5.0	< 5.0	< 5.0	**52.0 J**	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	**70.2 J**	**1.0 J**	**2.0 J**	**3.0**	-	-	-	-	-	-	-	-	**360 J**	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 14.0	**53.4 J**	**1.3**	**2.9 J**	**4.1**	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: *Detected analyte*

Table 4-9

Groundwater Sample Analytical Results at IR Site 2: Radionuclides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Gross Activity		Radium			Fission and Activation Products			Natural	Daughter	Thorium Series (Rn Daughters)			Tritium	Uranium Daughter		Uranium Isotopes			Uranium Series (Rn Daughters)		
			Alpha (900.0)	Beta (900.0)	Ra-226 (903.0)	Ra-228 (904.0)	Radium (Sum)	Cesium 137 (901.1)	Cobalt 60 (901.1)	Strontium (Sr) Total (905.0)	Potassium 40 (901.1)	Actinium 228 (901.1)	Bismuth 212 (901.1)	Lead 212 (901.1)	Thallium 208 (901.1)	Tritium (906.0)	Protactinium 234 (901.1)	Thorium 234 (901.1)	Uranium 233/234 (908.0)	Uranium 235 (908.0)	Uranium 238 (908.0)	Bismuth 214 (901.1)	Lead 210 (901.1)	Lead 214 (901.1)
		Units:	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L	PCI/L
		MCL:	15.0	50.0	NA	NA	5.0	NA	NA	8.0	NA	NA	NA	NA	NA	20,000	NA	NA	NA	20.0	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M023-C	2004 02 (Summer)	< 23.0	< 63.0	1.1	< 1.0	1.1	< 9.2	< 11.3	< 0.53 UJ	< 170	< 48.0	< 135	< 14.4	< 12.1	< 380	-	< 159	< 0.20	< 0.20	< 0.20	< 26.0 UJ	-	< 21.0 UJ
		2003 04 (Winter)	< 15.3	84.7 J	< 1.7	< 3.8	-	-	-	< 1.9	< 227	< 34.6	< 219	< 8.6	30.4	< 176	< 1,480	< 12.0	-	-	-	< 29.0	< 276	40.5
		2003 02 (Summer)	< 13.2	101	< 2.0	< 3.7	-	-	-	< 1.6	603	< 54.3	< 198	< 33.1	*< 56.8*	< 175	*< 1,100*	*< 93.6*	-	-	-	*< 36.4*	*< 666*	< 19.8
		2002 04 (Winter)	< 15.0 UJ	98.7	2.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	3.1	71.7	0.64	-	0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M036-B	2006 01 (Spring)	< 3.0	131	0.82	< 5.0	0.82	< 5.0	< 5.0	< 5.0	94.3 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	91.6	0.94 J	< 5.0	0.94	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 16.7 UJ	63.1 J	1.0	< 5.0	1.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 14.4	102	0.71	< 1.5	0.71	< 9.1	< 9.9	< 0.61	< 152	< 49.0	< 128	< 13.4	< 7.6	< 380	-	< 139	< 0.22	< 0.20	< 0.20	< 25.0 UJ	-	< 15.5 UJ
		2003 04 (Winter)	< 18.0	90.2 J	< 1.1	< 5.1	-	-	-	< 1.6	< 175	< 63.8	< 178	< 16.6	< 38.4	< 182	< 1,700	< 283	-	-	-	< 28.0	< 225	< 15.1
		2003 02 (Summer)	< 20.4	106	1.7	< 3.5	1.7	-	-	< 2.0	< 47.4	< 3.7	< 167	< 18.5	< 4.9	< 164	< 230	< 144	-	-	-	< 0.52	< 111	< 32.3
		2002 04 (Winter)	< 19.3	104	1.3	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 2.0	65.7	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M037-B	2006 01 (Spring)	< 3.0	*58.3*	*1.5*	< 5.0	*1.5*	< 5.0	< 5.0	< 5.0	104	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	< 0.20	-	< 0.20	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	38.7 J	1.9 J	2.8 J	4.6	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 11.9	25.0 J	1.3	< 5.0	1.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 8.8	53.0	1.5	1.9	3.4	< 7.8	< 11.6	< 0.66	< 134	< 40.0	< 121	< 13.7	< 8.6	< 380	-	< 129	< 0.20	< 0.20	< 0.20	< 24.0 UJ	-	< 22.0 UJ
		2003 04 (Winter)	< 12.7	53.7 J	< 2.2	< 5.0	-	-	-	< 1.6	*< 37.0*	*< 55.2*	< 123	*< 17.0*	46.8	< 179	< 2,070	< 117	-	-	-	< 32.0	< 179	< 36.9
		2003 02 (Summer)	< 12.2	47.5	1.9	< 3.4	1.9	-	-	< 1.8	< 61.9	< 26.9	< 149	< 7.0	< 4.5	< 233	< 224	< 258	-	-	-	< 23.4	< 164	< 22.1
		2002 04 (Winter)	< 10.7	67.1	1.5	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	1.1	102	< 0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M038-B	2006 01 (Spring)	< 3.0	263	1.1	< 5.0	1.1	< 5.0	< 5.0	< 5.0	164	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	4.3	-	4.6	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0	202	1.3 J	5.1	6.4	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 35.1	96.9	1.3	< 5.0	1.3	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 43.0	168	0.95	2.8	3.8	< 8.2	< 10.3	< 0.66 UJ	< 210	< 42.0	< 119	< 15.2	< 12.9	< 380	-	< 143	4.3	< 0.20	3.2	< 23.0 UJ	-	< 14.2 UJ
		2003 04 (Winter)	< 43.2	207	1.7	< 3.6	1.7	-	-	< 2.6	< 339	< 67.9	< 150	< 26.0	< 59.2	< 185	< 1,830	< 143	-	-	-	< 43.3	< 154	< 29.8
		2003 02 (Summer)	< 60.1	169	2.1	< 4.3	2.1	-	-	< 1.7	< 29.9	< 4.4	< 72.6	< 13.0	< 24.6	< 169	< 658	< 255	-	-	-	< 7.9	< 105	< 48.2
		2002 04 (Winter)	< 58.7 UJ	279	1.6	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	11.0	127	< 0.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M039-B	2006 01 (Spring)	< 3.0	200	1.0	< 5.0	1.0	< 5.0	< 5.0	< 5.0	93.2 J	< 20.0	< 50.0	< 15.0	< 10.0	< 500	-	< 250	9.8	-	6.5	< 10.0	< 750	< 10.0
		2005 02 (Summer)	< 3.0 UJ	< 3.0	0.36 J	2.8 J	3.2	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 04 (Winter)	52.0 J	127 J	1.1	5.9	7.0	-	-	-	-	-	-	-	-	< 500	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 43.0	< 109	0.70	2.1	2.8	*< 7.6*	*< 8.1*	*< 0.53 UJ*	*< 115*	*< 37.0*	*< 116*	*< 10.6*	*< 7.0*	< 380	-	< 128	9.8	0.40	7.1	< 23.0 UJ	-	< 20.0 UJ
		2003 04 (Winter)	< 62.4	110 J	< 0.84	< 5.6	-	-	-	< 1.8	< 185	< 54.7	< 123	< 22.4	48.7	< 174	< 2,090	< 196	-	-	-	< 29.0	< 161	35.0
		2003 02 (Summer)	< 56.3	161	1.2	< 4.6	1.2	-	-	< 1.6	< 104	< 1.2	< 11.7	< 19.9	< 32.9	< 168	< 957	< 318	-	-	-	< 5.0	< 124	< 45.1
		2002 04 (Winter)	< 63.1	160	0.97	-	0.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	18.6	< 220	0.89	-	0.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	442-MW1	04/20/06	7.19	0.79	-122
		08/31/05	8.31	0.82	-234
		03/07/05	6.64	0.99	88
		11/17/04	7.06	0.32	126
		06/18/04	7.11	***15.00***	-110
		04/07/04	7.77	0.14	-27
		12/17/03	7.04	0.32	227
		09/24/03	7.74	3.60	0.11
		07/09/03	7.79	0.14	-262
		04/24/03	***8.70***	0.47	174
		12/30/02	6.82	1.69	-8.2
		09/20/02	7.49	0.58	-144
		07/10/02	7.99	***9.77***	0.0
First	M010-A	04/19/06	7.84	1.80	-252
		08/31/05	8.19	1.14	-228
		03/07/05	7.51	0.26	-182
		11/17/04	7.10	1.06	104
		06/18/04	6.97	***9.80***	-47
First	M011-A	04/20/06	7.32	0.03	-73
		08/31/05	7.25	0.80	-155
		03/07/05	6.99	2.77	-98
		11/17/04	6.63	0.32	-20
		06/18/04	6.44	1.80	-263
		04/06/04	6.85	0.27	-78
		12/16/03	6.61	0.26	116
		09/25/03	6.57	0.14	-56
		07/08/03	6.75	0.11	70
		04/17/03	6.80	0.15	-11
		12/11/02	6.16	8.54	98.1
		09/19/02	6.68	0.80	-132.1
		07/01/02	7.06	2.00	-110
First	M012-A	04/19/06	6.94	0	-79
		09/01/05	7.81	0.97	-52
		03/07/05	6.79	0.72	-99
		11/17/04	7.20	1.19	109
		06/18/04	6.42	0.17	-204
		04/06/04	6.34	0.22	-43
		12/16/03	7.05	0.29	50
		09/25/03	6.96	0.17	-9.0
		07/09/03	6.72	0.17	-46
		04/21/03	6.32	0.21	97
		12/12/02	***8.63***	0.00	-57
		09/19/02	6.85	1.50	-62.9
		07/01/02	6.51	2.50	0.0
First	M013-A	04/19/06	7.31	2.05	54
		08/31/05	6.91	1.20	81
		03/07/05	7.55	0.29	15

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M013-A	11/18/04	6.96	2.22	160
		06/18/04	6.94	0.93	-9.0
		04/06/04	7.56	0.35	120
		12/17/03	7.04	***10.04***	149.8
		09/25/03	7.19	0.45	85
		07/09/03	7.45	1.43	238
		04/17/03	7.96	0.28	141
		12/11/02	8.32	0.00	3.0
		09/19/02	7.29	1.70	-37.3
		07/02/02	6.61	2.40	172
First	M014-A	04/20/06	7.31	5.95	63
		08/31/05	6.64	1.66	21
		03/07/05	6.14	2.94	-24
		11/17/04	6.98	2.50	181
		06/18/04	6.98	1.88	-215
		04/06/04	6.94	2.26	97
		12/17/03	6.76	2.97	256
		09/26/03	7.10	1.35	79
		07/09/03	7.19	2.97	170
		04/17/03	7.41	3.52	192
		12/11/02	7.64	0.45	59
		09/19/02	6.89	***14.10***	127.5
		07/02/02	6.54	3.50	230
First	M016-A	04/20/06	6.76	0.70	-199
		08/31/05	6.05	4.30	-158
		03/07/05	6.06	1.69	-178
		11/17/04	6.62	0.25	32
		06/23/04	7.31	2.50	-93
		04/08/04	6.48	0.32	-39
		12/18/03	6.56	0.41	111
		09/25/03	6.83	0.29	-178
		07/09/03	6.97	0.17	76
		04/17/03	6.59	0.38	81
		12/12/02	***5.98***	3.63	-75.6
		09/23/02	6.90	1.00	-100.8
		07/02/02	7.10	2.40	-89
First	M016-E	04/20/06	7.08	5.72	-227
		09/01/05	6.33	5.21	-208
		03/07/05	7.07	0.00	-223
		11/17/04	6.72	0.24	-34
		06/23/04	7.52	2.20	-160
		03/11/04	7.10	0.22	-129
		12/18/03	6.53	0.42	89
		09/26/03	6.76	0.51	-89
		07/09/03	7.19	0.14	-4.0
		04/17/03	7.03	0.36	-109
		12/12/02	6.08	6.64	-126.8

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M016-E	09/23/02	6.90	0.90	-150.1
		07/02/02	7.34	1.80	-159
First	M017-A	04/20/06	7.40	5.47	103
		09/01/05	6.52	6.78	80
		03/07/05	7.19	2.00	14
		11/16/04	6.98	3.00	196
		06/23/04	6.78	3.83	-176
		04/12/04	7.09	1.89	118
		12/17/03	7.01	1.88	157
		09/26/03	7.01	3.84	26
		07/09/03	7.03	3.23	-203
		04/22/03	7.03	3.39	228
		12/12/02	6.96	2.28	107
		09/24/02	6.65	***38.50***	181.7
		07/08/02	7.08	4.90	-70
First	M018-A	04/20/06	6.62	0.19	203
		09/02/05	7.28	0.95	64
		03/07/05	6.98	0.00	-52
		11/16/04	6.80	0.28	173
		06/24/04	7.68	4.50	-37
		04/08/04	6.77	0.19	-115
		12/17/03	6.78	0.37	-22
		09/26/03	6.89	0.50	31
		07/09/03	6.95	0.30	65
		04/22/03	6.09	0.36	291
		12/12/02	6.37	4.20	100.1
		09/23/02	6.89	1.27	61
		07/08/02	7.13	1.50	-136
First	M018-E	04/20/06	6.91	0.22	-124
		09/01/05	6.27	4.03	-139
		11/16/04	6.73	0.32	50
		06/24/04	7.48	4.70	40
		12/17/03	6.79	0.60	-80.4
		07/09/03	6.76	0.20	163
		12/12/02	6.14	4.98	-91.7
		07/08/02	6.88	0.80	-226
First	M019-A	04/24/06	7.19	0.61	79
		09/01/05	7.53	4.80	55
		03/08/05	6.17	1.38	52
		11/16/04	6.82	3.57	2.3
		06/22/04	7.00	5.68	-196
		04/07/04	6.77	3.48	181
		12/18/03	7.19	1.57	83.2
		09/26/03	6.74	4.73	135
		07/09/03	6.95	4.63	186
		04/21/03	6.85	4.06	250
		12/12/02	6.75	2.74	134

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M019-A	09/23/02	6.41	4.52	107
		07/08/02	***4.81***	3.10	42
First	M019-E	04/24/06	6.36	0.20	-19
		09/01/05	7.51	0.82	-98
		11/16/04	6.84	0.27	117
		06/22/04	7.09	0.77	-92
		12/18/03	7.14	0.73	-94.9
		07/09/03	6.87	0.20	167
		12/12/02	***8.51***	0.00	-95
		07/09/02	7.00	2.40	-118
First	M020-A	04/20/06	8.45	0.93	-115
		09/02/05	6.79	1.13	-90
		03/08/05	7.08	0.00	-12
		11/16/04	7.06	0.54	148
		06/23/04	7.26	0.63	-18
		04/07/04	7.73	1.09	4.0
		12/15/03	7.24	0.60	46
		09/26/03	7.23	2.38	71
		07/10/03	7.22	5.82	197
		04/22/03	6.81	0.97	237
		12/12/02	6.77	4.51	-65.3
		09/23/02	7.15	1.28	-90
		07/08/02	***4.93***	1.90	-43
First	M020-E	04/24/06	6.89	0.62	-210
		09/01/05	7.52	0.73	-192
		03/08/05	6.09	0.56	-206
		11/16/04	6.60	0.41	11
		06/22/04	6.64	0.19	-108
		03/10/04	6.75	0.18	29
		12/15/03	6.81	0.20	-93
		09/26/03	6.76	0.20	-71
		07/10/03	6.69	0.48	-100
		04/02/03	6.34	0.29	-51
		01/07/03	7.22	0.02	-182
		09/23/02	6.76	0.30	-169
		07/10/02	6.73	6.40	-205
First	M021-A	09/01/05	7.92	0.00	-344
		03/08/05	7.69	0.00	-220
		11/12/04	7.49	0.30	-12
		06/22/04	7.56	***9.10***	-214
		04/07/04	7.86	0.15	-151
		12/15/03	7.58	0.15	-39
		09/29/03	7.82	0.11	-308
		07/10/03	8.16	0.12	-206
		04/22/03	7.89	0.18	-278
		12/26/02	8.05	4.49	-32
		09/24/02	7.57	0.29	-339

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M021-A	07/08/02	***5.90***	1.50	-259
First	M021-E	04/24/06	7.09	0.73	-190
		09/01/05	6.96	0.00	-191
		03/08/05	7.03	0.00	-193
		11/15/04	6.92	0.37	-24
		06/22/04	6.79	***26.40***	-149
		03/10/04	6.81	0.18	13
		12/15/03	6.96	0.24	-46
		09/26/03	6.87	0.24	-121
		07/10/03	6.98	0.25	-53
		04/22/03	6.92	0.30	-125
		12/26/02	7.32	5.21	-170
		09/24/02	6.87	0.39	-182
		07/10/02	7.27	***10.60***	-326
First	M022-A	09/01/05	6.99	0.00	-350
		03/08/05	7.14	0.00	-390
		11/16/04	6.87	0.19	-276
		06/22/04	6.94	1.90	-264
		04/07/04	6.97	0.14	-315
		12/15/03	7.13	0.92	-285.9
		09/26/03	7.02	0.23	-323
		07/10/03	7.06	0.11	-270
		04/22/03	6.54	0.14	-305
		01/08/03	7.39	0.00	-292
		09/24/02	6.98	0.39	-369
		07/08/02	***5.85***	1.60	-340
First	M022-E	04/24/06	6.81	0.58	-181
		09/01/05	6.81	0.00	-173
		03/08/05	6.89	0.00	-153
		11/15/04	6.70	0.43	35
		06/21/04	6.63	3.40	-152
		03/10/04	6.64	0.24	-70
		12/15/03	6.76	1.10	-127.4
		09/29/03	6.67	0.16	-53
		07/10/03	6.84	0.12	18
		04/22/03	***5.93***	0.32	0.0
		01/07/03	7.12	0.00	-108
		09/24/02	6.69	0.34	-124
		07/12/02	6.88	10.05	0.0
First	M023-A	04/25/06	7.31	0.38	-383
		09/07/05	6.96	7.89	59
		03/08/05	7.57	1.33	-337
		11/15/04	6.98	0.45	-322
		06/24/04	6.84	2.90	-251
		04/08/04	6.76	1.11	255
		12/15/03	7.13	0.59	-261
		09/30/03	7.14	0.44	-330

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M023-A	07/10/03	6.70	0.17	-284
		04/21/03	7.38	0.30	-350
		12/13/02	***10.29***	0.00	-313
		09/25/02	6.76	0.30	-347
		07/09/02	7.04	0.00	-368
First	M023-E	04/24/06	6.83	0	-115
		09/02/05	6.63	0.64	-191
		03/08/05	7.25	4.61	-174
		11/15/04	6.97	0.17	-177
		06/23/04	6.73	0.20	-101
		03/10/04	6.87	0.20	56
		12/16/03	6.84	0.26	-84
		09/30/03	7.23	0.26	-175
		07/10/03	6.73	0.17	-132
		04/23/03	6.24	0.25	-70
		12/26/02	7.28	0.00	-182
		09/25/02	6.83	0.27	-181
		07/12/02	***4.91***	2.40	75
First	M024-A	04/24/06	6.59	0.09	-108
		09/06/05	6.11	0.39	-117
		03/08/05	6.71	***9.15***	-156
		11/16/04	6.45	0.30	-9.0
		06/22/04	6.41	0.19	25
		04/07/04	6.29	0.41	-33
		12/15/03	6.54	0.31	173
		09/29/03	6.66	0.16	-100
		07/14/03	6.57	0.22	-68
		04/24/03	6.60	0.31	24
		12/27/02	6.61	0.12	-132
		09/24/02	6.40	0.70	-94.9
		07/08/02	***4.98***	4.60	-118
First	M024-E	04/24/06	7.12	0.18	-151
		09/06/05	6.45	0.86	-153
		03/08/05	7.29	2.10	-197
		11/15/04	7.04	0.27	-14
		06/22/04	6.92	0.15	-21
		03/11/04	7.05	0.29	20
		12/16/03	7.13	0.22	95
		09/30/03	7.44	0.26	-111
		07/14/03	7.00	0.29	-141
		04/24/03	7.06	0.34	-38
		12/27/02	7.25	0.00	-184
		09/24/02	6.78	1.40	-113.7
		07/08/02	7.20	0.80	-325
First	M036-A	04/24/06	6.58	1.11	-119
		09/06/05	6.39	0.00	-114
		03/09/05	**5.91**	4.19	-146

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M036-A	11/18/04	***5.90***	0.19	84
		06/21/04	6.24	1.80	-69
		04/08/04	6.12	0.20	4.0
		12/16/03	6.31	0.30	69
		09/25/03	6.82	0.37	37
		07/11/03	6.44	0.16	-52
		04/23/03	***5.83***	0.34	178
		12/30/02	6.92	4.18	-139
		09/20/02	6.34	0.34	-157
		07/09/02	6.31	***-0.50***	-76.9
First	M036-E	04/24/06	7.02	0.29	-178
		09/02/05	6.87	0.00	-210
		03/09/05	6.35	0.90	-231
		11/16/04	6.78	0.11	-18
		06/21/04	6.80	4.20	-144
		03/11/04	6.90	0.23	-68
		12/16/03	6.82	0.39	-38
		09/26/03	6.84	0.22	-86
		07/14/03	7.05	0.16	31
		04/23/03	6.28	0.31	-41
		12/30/02	7.48	3.97	-175
		09/20/02	6.78	0.25	-186
		07/09/02	6.78	***-0.86***	-173.4
First	M037-A	04/25/06	7.12	0	-179
		09/06/05	7.15	0.00	-199
		03/09/05	7.37	0.00	-213
		11/17/04	6.88	0.15	-92
		06/22/04	7.43	0.49	-189
		04/08/04	6.82	0.10	-88
		12/16/03	7.24	0.28	-142.4
		09/25/03	7.38	0.36	-64
		07/11/03	6.99	0.19	-209
		04/23/03	7.42	0.59	-96
		12/30/02	7.33	0.00	-183
		09/20/02	7.08	0.60	-177.3
		07/09/02	***4.09***	3.20	-215
First	M037-E	04/24/06	6.89	0.45	-156
		09/06/05	6.85	0.00	-188
		03/09/05	7.02	0.00	-204
		11/17/04	6.58	0.33	42
		06/22/04	6.65	0.27	-76
		04/08/04	6.60	0.29	-77
		12/16/03	6.85	0.48	-134.4
		09/25/03	7.14	0.25	-72
		07/11/03	6.68	0.19	-23
		04/23/03	7.16	0.36	-109
		12/30/02	7.02	0.09	-179

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M037-E	09/20/02	6.80	1.10	-164.1
		07/09/02	***4.89***	3.40	-186
First	M038-A	04/25/06	6.60	0.93	-184
		03/09/05	6.79	6.84	-241
		11/15/04	5.58	0.48	63
		06/23/04	6.66	0.28	-215
		04/07/04	6.66	0.23	-118
		12/17/03	6.69	0.12	-137
		09/30/03	6.59	0.71	-381
		07/11/03	6.80	0.18	45
		04/23/03	7.37	0.32	-112
		12/30/02	NM	NM	NM
		09/23/02	NM	NM	NM
		07/11/02	6.73	***11.10***	-162
First	M038-E	04/25/06	6.62	0.83	-202
		09/06/05	7.36	0.75	-203
		03/09/05	6.90	***11.74***	-222
		11/15/04	6.75	0.69	42
		06/23/04	6.61	0.32	-149
		03/11/04	6.78	0.26	-11
		12/16/03	6.61	0.23	27
		09/30/03	6.67	0.64	-109
		07/14/03	6.87	0.20	72
		04/23/03	7.17	0.24	-95
		12/30/02	6.91	0.23	-169
		09/23/02	6.94	1.80	-175.8
		07/10/02	***4.59***	2.40	-172
First	M039-A	04/26/06	6.04	1.08	-154
		09/06/05	7.08	0.88	-156
		03/09/05	6.59	***9.24***	-206
		11/16/04	6.38	0.17	77
		06/23/04	6.48	0.31	-134
		04/08/04	6.43	0.31	-47
		12/16/03	6.66	0.22	-106.7
		09/25/03	6.52	0.31	-26
		07/11/03	6.68	0.45	-31
		04/23/03	6.90	0.29	-1.0
		12/31/02	6.52	NM	NM
		09/20/02	6.52	1.00	-76.4
		07/10/02	***4.96***	4.20	-96
Second	M010-B	04/20/06	7.84	0	-197
		08/31/05	7.6	1.36	-84
		11/17/04	7.50	0.30	-68
		06/18/04	7.36	1.30	-138
		12/17/03	7.46	0.23	51
		07/11/03	7.67	0.09	110
		12/11/02	7.10	***10.69***	-173.4

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M010-B	07/11/02	8.12	***9.36***	0.0
Second	M012-B	04/19/06	7.22	0.57	-76
		08/31/05	6.81	0.00	-107
		11/18/04	6.87	2.08	169
		06/18/04	6.78	4.65	-207
		12/16/03	6.71	1.66	109
		07/11/03	7.00	0.09	166
		12/12/02	7.92	0.00	-7.0
		07/10/02	6.84	0.60	288.4
Second	M013-C	04/19/06	7.21	0.76	-119
		08/31/05	6.78	0.00	-107
		11/18/04	6.82	1.20	120
		06/18/04	7.08	0.71	-267
		12/17/03	7.09	6.15	-58.2
		07/09/03	6.95	0.30	251
		12/12/02	7.73	0.00	23
		07/10/02	6.85	0.28	343.4
Second	M014-B	04/24/06	7.07	0.47	-84
		08/31/05	6.88	0.00	-121
		11/17/04	6.91	0.24	154
		06/18/04	7.32	0.68	-291
		12/17/03	6.83	0.32	222
		07/09/03	7.00	0.18	148
		12/11/02	***8.64***	3.96	-63
		07/10/02	6.85	0.10	133.9
Second	M016-B	04/20/06	6.99	0.75	-19
		08/31/05	6.12	4.36	-20
		11/17/04	6.82	0.31	199
		06/23/04	7.44	3.60	80
		12/17/03	6.75	0.34	51
		07/09/03	7.09	0.26	177
		12/12/02	6.35	2.60	36.3
		07/11/02	6.95	***18.50***	-47
Second	M020-B	04/25/06	7.09	0.45	-208
		09/01/05	8.11	0.89	-211
		11/16/04	7.08	0.16	59
		06/22/04	7.04	0.15	-343
		12/15/03	7.23	0.16	-89
		07/10/03	6.99	0.24	-121
		01/08/03	***10.41***	0.00	-179
		07/15/02	7.31	0.55	0.0
Second	M021-C	04/24/06	7.11	0.76	-192
		09/01/05	6.91	0.00	-228
		11/12/04	6.81	0.30	11
		06/22/04	6.72	1.90	-79
		12/15/03	7.02	0.18	-28
		07/10/03	7.28	0.13	-95

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M021-C	12/26/02	7.11	0.00	-162
		07/11/02	6.86	0.14	-154.6
Second	M023-B	04/24/06	7.02	1.04	-197
		09/06/05	6.46	0.00	-171
		11/15/04	6.99	0.10	-147
		06/21/04	6.77	0.12	-291
		12/16/03	6.87	0.21	-61
		07/10/03	6.91	0.09	-113
		12/13/02	***9.14***	0.00	-174
		07/15/02	7.02	2.30	-123
Second	M023-C	04/24/06	7.34	0.50	-180
		09/07/05	6.46	0.14	-211
		11/15/04	7.08	0.09	-96
		06/23/04	6.86	0.20	38
		12/16/03	6.96	0.21	-38
		07/10/03	7.21	0.12	-10
		12/13/02	***9.33***	0.00	-177
		07/16/02	7.01	***-0.08***	-168.9
Second	M036-B	04/25/06	6.99	0.57	-163
		09/02/05	6.86	0.00	-207
		11/16/04	6.75	0.20	-154
		06/22/04	6.80	2.00	-154
		12/16/03	6.82	0.51	20
		07/11/03	6.99	0.11	-60
		12/30/02	7.42	4.66	-169
		07/09/02	6.77	***-0.01***	-173
Second	M037-B	04/24/06	7.16	0.57	-193
		09/07/05	6.24	0.35	-143
		11/17/04	6.86	0.15	95
		06/22/04	6.77	0.23	-56
		12/16/03	7.02	0.55	-118.1
		07/11/03	6.92	0.14	-24
		12/30/02	8.25	0.00	-165
		07/09/02	***4.52***	4.30	-156
Second	M038-B	04/25/06	6.95	0.89	-134
		09/02/05	7.52	0.75	-120
		11/15/04	7.43	1.06	89
		06/24/04	6.80	0.23	-90
		12/17/03	6.89	0.14	-68
		07/11/03	7.05	0.12	123
		12/31/02	6.45	0.97	61.2
		07/15/02	7.02	1.90	-49
Second	M039-B	04/26/06	6.56	0.82	-69
		09/06/05	7.5	0.75	-77
		11/16/04	6.73	0.13	154
		06/23/04	7.42	2.90	-15
		12/16/03	6.91	0.45	-79.5

Table 4-10
Groundwater Sampling Field Parameters at IR Site 2
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	M039-B	07/11/03	6.92	0.41	224
		12/30/02	7.44	3.52	-45
		07/15/02	6.89	0.05	-33.3

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 4-11
Groundwater Sample Analytical Results at IR Site 2: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	442-MW1	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**12.0 J**	**8.8**	**120**	**120**	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	**140**	**25.0**	**290**	**290**	< 1.0	< 1.0	**0.070**	-
		2004 04 (Winter)	-	-	-	**0.21**	< 0.050	**90.0**	**22.0**	**220**	**220**	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	**100**	**25.0**	**320**	**320**	< 1.0	< 1.0	< 0.040	-
		2004 01 (Spring)	< 0.0030	< 0.0030	**0.51**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	**0.55**	< 0.10	**45.5**	**15.9**	**192**	**192**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 0.10	< 1.0	**202**	**38.7**	**211**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	**0.24**	< 0.050	**27.0**	**13.0**	**260**	**260**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.24**	< 0.050	< 0.050	**300**	**38.0**	**280**	**280**	< 1.0	< 1.0	< 0.040	-
	M011-A	2004 01 (Spring)	< 0.0030	< 0.0030	**0.017**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.092**	-	-	-	-	-	-	-	-	-	-
	M012-A	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**17.0**	**2.7**	**110**	**110**	< 1.0	< 1.0	< 0.040	**300**
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	**340**	**46.0**	**140**	**140**	< 1.0	< 1.0	< 0.040	**130**
		2004 04 (Winter)	-	-	-	**0.080**	< 0.050	**250**	**34.0**	**120**	**120**	< 1.0	< 1.0	< 0.040	**580**
		2004 02 (Summer)	-	-	-	**0.10**	< 0.050	**160**	**20.0**	**98.0**	**98.0**	< 1.0	< 1.0	< 0.040	**390**
		2004 01 (Spring)	< 0.0030	< 0.0030	**0.80**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	**0.32**	< 0.10	**125 J**	**24.3**	**138**	**138**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	**0.12**	< 0.10	**124**	**14.7**	**74.5**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	**0.15**	< 0.050	**250**	**31.0**	**120**	**120**	< 1.0	< 1.0	**0.11**	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.35**	< 0.050	**45.0**	**9.7**	**77.0**	**77.0**	< 1.0	< 1.0	< 0.040	-
	M013-A	2004 01 (Spring)	< 0.0030	< 0.0030	< 0.0030	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-
	M014-A	2004 01 (Spring)	< 0.0030	< 0.0030	**0.0018 J**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-
	M016-A	2006 01 (Spring)	-	-	-	< 0.10	< 0.10	**800 J**	**110**	**1,300**	**1,300**	< 1.0	< 1.0	< 0.040	**3,030**
		2005 02 (Summer)	-	-	-	< 0.15	< 0.25	**2,500**	**460**	**1,100**	**1,100**	< 1.0	< 1.0	< 0.040	**5,650**
		2004 04 (Winter)	-	-	-	< 1.3	< 1.3	**12,000**	**1,800**	**410**	**410**	< 1.0	< 1.0	< 0.040	**20,700**
		2004 02 (Summer)	-	-	-	< 0.25	< 0.50	**3,400**	**1,100**	**950**	**950**	< 1.0	< 1.0	< 0.040	**7,720**
		2004 01 (Spring)	< 0.0030	< 0.0030	**0.40**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	< 10.0	**8,390**	**1,480**	**513**	**513**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**3,490**	**817**	**924**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	**14,000**	**1,800**	**320**	**320**	< 1.0	< 1.0	**0.040**	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.28**	< 0.25	< 0.25	**2,000**	**850**	**1,100**	**1,100**	< 1.0	< 1.0	< 0.040	-
	M016-E	2005 02 (Summer)	-	-	-	< 0.50	< 1.0	**7,800**	**340**	**2,300**	**2,300**	< 1.0	< 1.0	< 0.040	**11,500**
		2004 04 (Winter)	-	-	-	< 1.0	< 1.0	**10,000**	**1,400**	**630**	**630**	< 1.0	< 1.0	< 0.040	**18,500**
		2004 02 (Summer)	-	-	-	< 0.50	< 1.3	**6,400**	**270**	**2,200**	**2,200**	< 1.0	< 1.0	< 0.040	**12,100**
		2004 01 (Spring)	**0.0012 J**	< 0.0030	**0.58**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	< 10.0	**8,410**	**1,360**	**651**	**651**	< 5.0	-	< 1.0	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-11
Groundwater Sample Analytical Results at IR Site 2: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M016-E	2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**6,940**	**293**	**2,130**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	**11,000**	**1,500**	**520**	**520**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.78**	< 0.50	< 0.50	**6,100**	**270**	**2,300**	**2,300**	< 1.0	< 1.0	< 0.040	-
	M017-A	2004 01 (Spring)	< 0.0030	< 0.0030	**0.015**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-
	M018-A	2004 01 (Spring)	< 0.0030	< 0.0030	**0.015**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-
	M018-E	2002 02 (Summer)	< 0.010	< 0.010	**0.011**	-	-	-	-	-	-	-	-	-	-
	M019-A	2004 01 (Spring)	< 0.0030	< 0.0030	**0.0015 J**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-
	M019-E	2002 02 (Summer)	< 0.010	< 0.010	**0.011**	-	-	-	-	-	-	-	-	-	-
	M020-A	2004 01 (Spring)	< 0.0030	< 0.0030	**0.050**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-
	M020-E	2004 01 (Spring)	< 0.0030	< 0.0030	**0.026**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.039**	-	-	-	-	-	-	-	-	-	-
	M021-A	2004 01 (Spring)	**0.0008 J**	< 0.0030	**0.66**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**1.4**	-	-	-	-	-	-	-	-	-	-
	M021-E	2004 01 (Spring)	< 0.0030	< 0.0030	**0.055**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.074**	-	-	-	-	-	-	-	-	-	-
	M022-A	2004 01 (Spring)	**0.0016 J**	< 0.0030	**0.68**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**1.5**	-	-	-	-	-	-	-	-	-	-
	M022-E	2004 01 (Spring)	< 0.0030	< 0.0030	**0.030**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.048**	-	-	-	-	-	-	-	-	-	-
	M023-A	2004 01 (Spring)	< 0.0030	< 0.0030	**0.49**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**2.2**	-	-	-	-	-	-	-	-	-	-
	M023-E	2004 01 (Spring)	< 0.0030	< 0.0030	**8.5**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**14.0**	-	-	-	-	-	-	-	-	-	-
	M024-A	2004 01 (Spring)	**0.0007 J**	< 0.0030	**4.6**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**8.2**	-	-	-	-	-	-	-	-	-	-
	M024-E	2004 01 (Spring)	**0.0015 J**	< 0.0030	**0.72**	-	-	-	-	-	-	-	-	-	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.50**	-	-	-	-	-	-	-	-	-	-
	M036-A	2006 01 (Spring)	-	-	-	< 0.20	< 0.20	**1,600**	**0.50 J**	**970**	**970**	< 1.0	< 1.0	**0.12**	**3,280**
		2005 02 (Summer)	-	-	-	< 0.10	< 0.20	**1,800**	< 1.0	**1,200**	**1,200**	< 1.0	< 1.0	**0.090**	**4,340**
		2004 04 (Winter)	-	-	-	< 0.25	< 0.25	**2,700**	**1.1 J**	**1,300**	**1,300**	< 1.0	< 1.0	**0.18**	**5,320**
		2004 02 (Summer)	-	-	-	< 0.25	< 0.25	**2,700**	**0.77 J**	**1,300**	**1,300**	< 1.0	< 1.0	**0.40**	**5,380**
		2004 01 (Spring)	< 0.0030	< 0.0030	**7.2**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	**2,980 J**	**56.6**	**1,380**	**1,380**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 0.50	< 5.0	**3,050**	**0.42 J**	**1,220**	-	-	-	< 1.0	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-11
Groundwater Sample Analytical Results at IR Site 2: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M036-A	2002 04 (Winter)	-	-	-	**0.50 J**	< 0.50	**4,200**	**37.0**	**1,400**	**1,400**	< 1.0	< 1.0	**3.1**	-
		2002 02 (Summer)	< 0.010	< 0.010	**11.0**	< 0.25	< 0.25	**2,400**	**3.3**	**1,300**	**1,300**	< 1.0	< 1.0	< 0.040	-
	M036-E	2005 02 (Summer)	-	-	-	< 1.0	< 1.3	**11,000**	< 10.0	**1,500**	**1,500**	< 1.0	< 1.0	< 0.040	**22,800**
		2004 04 (Winter)	-	-	-	< 1.3	< 1.3	**13,000**	< 13.0	**1,500**	**1,500**	< 1.0	< 1.0	< 0.040	**20,400**
		2004 02 (Summer)	-	-	-	< 1.3	< 1.3	**13,000**	< 13.0	**1,600**	**1,600**	< 1.0	< 1.0	< 0.040	**21,400**
		2004 01 (Spring)	< 0.0030	< 0.0030	**4.6**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	-	**10,600 J**	< 0.50	**1,460**	**1,460**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**13,700**	< 5.0	**1,460**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	**13,000**	< 25.0	**1,500**	**1,500**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**14.0**	< 0.50	< 0.50	**14,000**	< 5.0	**1,600**	**1,600**	< 1.0	< 1.0	< 0.040	-
	M037-A	2006 01 (Spring)	-	-	-	< 0.25	< 0.50	**3,300**	**120**	**1,700**	**1,700**	< 1.0	< 1.0	< 0.040	**7,040**
		2005 02 (Summer)	-	-	-	< 0.25	< 0.50	**4,100**	< 2.5	**2,000**	**2,000**	< 1.0	< 1.0	< 0.040	**9,000**
		2004 04 (Winter)	-	-	-	< 0.25	< 0.50	**3,200**	< 2.5	**2,200**	**2,200**	< 1.0	< 1.0	< 0.040	**6,410**
		2004 02 (Summer)	-	-	-	< 0.50	< 0.50	**5,100**	< 5.0	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040	**9,930**
		2004 01 (Spring)	< 0.0030	< 0.0030	**6.2**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	**1.5**	< 1.0	**2,880 J**	**8.6**	**2,220**	**2,220**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 0.50	< 10.0	**3,790**	< 0.50	**2,210**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	**2,900**	**64.0**	**2,300**	**2,300**	< 1.0	< 1.0	**0.20**	-
		2002 02 (Summer)	< 0.010	< 0.010	**5.7**	< 0.25	< 0.25	**5,100**	**27.0**	**2,300**	**2,300**	< 1.0	< 1.0	< 0.040	-
	M037-E	2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**14,000**	< 10.0	**1,500**	**1,500**	< 1.0	< 1.0	< 0.040	**27,100**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**15,000**	< 13.0	**1,600**	**1,600**	< 1.0	< 1.0	< 0.040	**25,700**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**16,000**	< 13.0	**1,500**	**1,500**	< 1.0	< 1.0	< 0.040	**25,100**
		2004 01 (Spring)	< 0.0030	< 0.0030	**4.5**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	**3.9**	-	**13,400 J**	< 0.50	**1,580**	**1,580**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**17,300**	< 5.0	**1,560**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	**15,000**	< 25.0	**1,700**	**1,700**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**11.0**	< 0.50	< 0.50	**18,000**	< 5.0	**1,700**	**1,700**	< 1.0	< 1.0	< 0.040	-
	M038-A	2006 01 (Spring)	-	-	-	< 0.050	< 0.10	**960**	**220**	**890**	**890**	< 1.0	< 1.0	< 0.040	**13,500**
		2004 04 (Winter)	-	-	-	< 0.50	< 1.0	**8,800**	**7.3**	**2,500**	**2,500**	< 1.0	< 1.0	< 0.040	**17,900**
		2004 01 (Spring)	< 0.0030	< 0.0030	**3.8**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	**5,540**	**109**	**2,420**	**2,420**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**10,100**	**5.0**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.25	< 0.25	**1,900**	**400**	**1,700**	**1,700**	< 1.0	< 1.0	**0.14**	-
		2002 02 (Summer)	< 0.010	< 0.010	**7.6**	-	-	-	-	-	-	-	-	-	-
	M038-E	2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**16,000**	**1.4 J**	**2,300**	**2,300**	< 1.0	< 1.0	< 0.040	**28,200**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**17,000**	< 13.0	**520**	**520**	< 1.0	< 1.0	< 0.040	**29,000**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**17,000**	< 13.0	**2,300**	**2,300**	< 1.0	< 1.0	< 0.040	**28,500**
		2004 01 (Spring)	< 0.0030	< 0.0030	**8.1**	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-11
Groundwater Sample Analytical Results at IR Site 2: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M038-E	2003 04 (Winter)	-	-	-	< 1.0	-	**14,000 J**	< 0.50	**2,340**	**2,340**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**16,900**	< 5.0	**2,170**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	**16,000**	< 25.0	**2,400**	**2,400**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**9.0**	< 0.50	< 0.50	**17,000**	< 5.0 J	**2,300**	**2,300**	< 1.0	< 1.0	< 0.040	-
	M039-A	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**430**	**6.9**	**870**	**870**	< 1.0	< 1.0	**0.20**	**1,450 J**
		2005 02 (Summer)	-	-	-	< 0.050	< 0.10	**730**	< 0.50	**1,400**	**1,400**	< 1.0	< 1.0	**0.12**	**2,360**
		2004 04 (Winter)	-	-	-	< 0.050	< 0.10	**900**	**5.3**	**1,500**	**1,500**	< 1.0	< 1.0	**2.2**	**2,660**
		2004 02 (Summer)	-	-	-	< 0.050	< 0.10	**660**	< 0.50	**1,400**	**1,400**	< 1.0	< 1.0	**0.17**	**2,470**
		2004 01 (Spring)	< 0.0030	< 0.0030	**4.3**	-	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	**0.30**	< 1.0	**779 J**	**2.1**	**1,500**	**1,500**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 0.10	< 0.50	**834**	**0.48 J**	**1,360**	-	-	-	**1.2**	-
		2002 04 (Winter)	-	-	-	< 0.10	< 0.10	**490**	**120**	**1,100**	**1,100**	< 1.0	< 1.0	**0.36**	-
		2002 02 (Summer)	< 0.010	< 0.010	**13.0**	< 0.10	< 0.10	**1,100**	< 1.0	**1,600**	**1,600**	< 1.0	< 1.0	< 0.040	-
	M010-B	2006 01 (Spring)	-	-	-	< 0.50	< 0.50	**4,900 J**	< 5.0	**1,600**	**1,600**	< 1.0	< 1.0	**0.050**	**9,640**
		2005 02 (Summer)	-	-	-	< 0.20	< 0.50	**3,200**	**270**	**700**	**700**	< 1.0	< 1.0	< 0.040	**6,010**
		2004 04 (Winter)	-	-	-	< 0.50	< 0.50	**5,200**	< 5.0	**1,600**	**1,600**	< 1.0	< 1.0	< 0.040	**9,600**
		2004 02 (Summer)	-	-	-	< 0.50	< 0.50	**5,100**	< 5.0	**1,600**	**1,600**	< 1.0	< 1.0	< 0.040	**10,600**
		2003 04 (Winter)	-	-	-	< 0.10	< 1.0	**7,170**	< 0.50	**1,620**	**1,620**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 100	**5,610**	< 0.50	**1,550**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 0.25	< 0.50	**5,000**	< 2.5	**1,500**	**1,500**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**25.0 J**	< 0.50	< 0.50	**5,300**	< 5.0	**1,600**	**1,600**	< 1.0	< 1.0	< 0.040	-
SWBZ	M012-B	2006 01 (Spring)	-	-	-	< 1.0	< 1.0	**15,000**	**1,300**	**740**	**740**	< 1.0	< 1.0	< 0.040	**27,200**
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**14,000**	**1,500**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	**25,700**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**16,000**	**1,400**	**780**	**780**	< 1.0	< 1.0	< 0.040	**25,700**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**16,000**	**1,400**	**770**	**770**	< 1.0	< 1.0	< 0.040	**26,400**
		2003 04 (Winter)	-	-	-	**1.6**	-	**12,200**	**1,410**	**1,090**	**1,090**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**18,300**	**1,490**	**748**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	**16,000**	**1,600**	**750**	**750**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**16,000**	**1,300**	**740**	**740**	< 1.0	< 1.0	< 0.040	-
	M013-C	2002 02 (Summer)	< 0.010	< 0.010	< 0.010	-	-	-	-	-	-	-	-	-	-
	M014-B	2002 02 (Summer)	< 0.010	< 0.010	**0.012**	-	-	-	-	-	-	-	-	-	-
	M016-B	2006 01 (Spring)	-	-	-	< 1.3	< 2.5	**15,000 J**	**2,100**	**420**	**420**	< 1.0	< 1.0	< 0.040	**28,800**
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**15,000**	**2,200**	**560**	**560**	< 1.0	< 1.0	< 0.040	**48,300,00**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**16,000**	**2,200**	**410**	**410**	< 1.0	< 1.0	< 0.040	**27,000**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**16,000**	**2,200**	**440**	**440**	< 1.0	< 1.0	< 0.040	**27,700**
		2003 04 (Winter)	-	-	-	< 1.0	-	**13,400**	**2,200**	**530**	**530**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**20,500**	**2,270**	**405**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	**16,000**	**2,200**	**400**	**400**	< 1.0	< 1.0	**0.040**	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-11

Groundwater Sample Analytical Results at IR Site 2: Natural Attenuation Parameters

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	M016-B	2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**16,000**	**2,100**	**420**	**420**	< 1.0	< 1.0	< 0.040	-
	M020-B	2002 02 (Summer)	< 0.010	< 0.010	**28.0**	-	-	-	-	-	-	-	-	-	-
	M021-C	2002 02 (Summer)	< 0.010	< 0.010	**36.0 J**	-	-	-	-	-	-	-	-	-	-
	M023-B	2002 02 (Summer)	< 0.010	< 0.010	**27.0**	-	-	-	-	-	-	-	-	-	-
	M023-C	2002 02 (Summer)	< 0.010	< 0.010	**28.0**	-	-	-	-	-	-	-	-	-	-
	M036-B	2006 01 (Spring)	-	-	-	< 0.25	< 0.50	**3,900**	< 2.5	**1,900**	**1,900**	< 1.0	< 1.0	< 0.040	**7,820**
		2005 02 (Summer)	-	-	-	< 0.25	< 0.50	**3,900**	< 2.5	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040	**7,820**
		2004 04 (Winter)	-	-	-	< 0.25	< 0.50	**4,000**	< 2.5	**2,000**	**2,000**	< 1.0	< 1.0	< 0.040	**11,900**
		2004 02 (Summer)	-	-	-	**0.090 J**	< 0.50	**4,000**	< 2.5	**2,000**	**2,000**	< 1.0	< 1.0	< 0.040	**7,900**
		2003 04 (Winter)	-	-	-	< 0.10 UJ	< 1.0	**3,450 J**	**0.37 J**	**1,310**	**1,310**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 0.50	< 10.0	**5,210**	< 0.50	**1,950**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	**3,900**	< 5.0	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**21.0**	< 0.25 J	< 0.25	**4,300**	< 2.5	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040	-
	M037-B	2006 01 (Spring)	-	-	-	< 0.25	< 0.25	**2,200**	< 2.5	**870**	**870**	< 1.0	< 1.0	< 0.040	**4,860**
		2005 02 (Summer)	-	-	-	< 0.15	< 0.25	**2,200**	< 1.5	**1,100**	**1,100**	< 1.0	< 1.0	< 0.040	**4,800**
		2004 04 (Winter)	-	-	-	< 0.25	< 0.25	**2,300**	< 2.5	**890**	**890**	< 1.0	< 1.0	< 0.040	**4,140**
		2004 02 (Summer)	-	-	-	< 0.25	< 0.25	**2,400**	< 2.5	**830**	**830**	< 1.0	< 1.0	< 0.040	**4,460**
		2003 04 (Winter)	-	-	-	**0.20 J**	< 1.0	**2,070 J**	< 0.50	**1,760**	**1,760**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	**2.8 J**	< 5.0	**2,570**	**0.55**	**868**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 0.50	< 0.50	**2,200**	< 5.0	**960**	**960**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**33.0**	< 0.25	< 0.25	**2,400**	< 2.5	**380**	**380**	< 1.0	< 1.0	< 0.040	-
	M038-B	2006 01 (Spring)	-	-	-	< 1.0	< 2.5	**14,000**	**1,700**	**530**	**530**	< 1.0	< 1.0	< 0.040	**27,400**
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**13,000**	**1,700**	**660**	**660**	< 1.0	< 1.0	< 0.040	**30,800**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**15,000**	**1,800**	**520**	**520**	< 1.0	< 1.0	< 0.040	**26,000**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**15,000**	**1,800**	**520**	**520**	< 1.0	< 1.0	< 0.040	**26,100**
		2003 04 (Winter)	-	-	-	< 1.0	< 10.0	**13,700**	**428**	**553**	**553**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**16,900**	**1,900**	**519**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	**14,000**	**1,800**	**550**	**550**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**15,000**	**1,800**	**530**	**530**	< 1.0	< 1.0	< 0.040	-
	M039-B	2006 01 (Spring)	-	-	-	< 1.0	< 2.5	**14,000**	**2,000**	**490**	**490**	< 1.0	< 1.0	< 0.040	**28,500 J**
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**15,000**	**2,000**	**490**	**490**	< 1.0	< 1.0	< 0.040	**45,500**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**16,000**	**2,000**	**480**	**480**	< 1.0	< 1.0	< 0.040	**28,600**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**16,000**	**1,900**	**480**	**480**	< 1.0	< 1.0	< 0.040	**27,600**
		2003 04 (Winter)	-	-	-	< 1.0	-	**14,300 J**	**2,090 J**	**553**	**553**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	-	-	-	< 1.0	< 10.0	**17,900**	**2,080**	**472**	-	-	-	< 1.0	-
		2002 04 (Winter)	-	-	-	**0.80 J**	< 2.5	**15,000**	**2,000**	**590**	**590**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**16,000**	**2,000**	**520**	**520**	< 1.0	< 1.0	< 0.040	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons								
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-01-D	2006 01 (Spring)	**2.0**	< 0.013	< 0.0013	< 0.0013	**0.0006**	**78.0**	**20.0**	< 0.67	**0.97**	**0.85**	**3.1**	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**4.2**	< 0.013	< 0.0013	< 0.0013	**0.0003**	**78.0**	**16.0**	< 0.67 UJ	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.73	< 0.73	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73
		2004 02 (Summer)	-	-	-	-	-	-	-	**1.8**	**2.3**	**0.28**	**1.5**	**0.20 J**	< 1.0	< 0.20	**0.23**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	**0.38**	**0.69**	**0.16 J**	**0.84**	**0.88**	< 1.0	< 0.20	**0.14 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	-	-	-	-	-	-	-	**2.1**	**5.6**	**1.0**	**5.7**	**1.0**	< 1.0 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 03 (Fall)	-	-	-	-	-	-	-	**2.0**	< 1.0	< 1.0	< 1.0	**90.0**	< 1.0	**2.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	**1.0**	**1.0**	< 1.0	**2.0**	**84.0 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**1.0**	< 1.4	< 0.91	< 2.3	**2.3 J**	< 4.5	**3.7**	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91 UJ
		2002 03 (Fall)	-	-	-	-	-	-	-	**1.4**	**0.98**	**0.67**	**2.0**	**0.37 J**	**0.27 J**	< 0.20	**0.23**	< 0.20	< 0.20	**0.11 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MG2-01-S	2006 01 (Spring)	**1.2**	< 0.014	< 0.0014	< 0.0014	< 0.0001	**79.0**	**20.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	**3.9**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2005 02 (Summer)	**0.64**	**0.063**	< 0.0013	< 0.0013	**0.0002**	**79.0**	**20.0**	< 0.67 UJ	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	**2.4**	< 0.013	< 0.0013	< 0.0013	**0.0086**	**79.0**	**19.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.79	< 0.79	< 0.79	< 0.79	< 7.9	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	-	-	-	-	-	-	-	**3.9**	**9.8**	**1.5**	**8.5**	**0.22 J**	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	**0.34**	**0.62**	**0.13 J**	**0.76**	**0.84**	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	-	-	-	-	-	-	-	**0.87**	**2.1**	**0.49**	**2.9**	**0.82**	< 1.0 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.085 J**
		2003 03 (Fall)	-	-	-	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	**20.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 1.0	**2.0**	< 1.0	**5.0**	**70.0 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**1.1**	**0.45 J**	< 0.90	< 2.2	**3.6 J**	< 4.5	**6.9**	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90	< 0.90 UJ
		2002 04 (Winter)	-	-	-	-	-	-	-	**0.34 J**	**0.26 J**	< 0.41	< 1.0	**3.3**	**0.26 J**	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
		2002 03 (Fall)	-	-	-	-	-	-	-	**0.43**	**0.31**	**0.15 J**	**0.76**	**0.11 J**	< 1.0	< 0.20	**0.13 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MG2-02-D	2005 02 (Summer)	**27.0**	< 0.014	< 0.0014	< 0.0014	**11.0**	**61.0**	**0.82**	**500 J**	**19.0**	< 6.8	**14.0**	< 68.0	< 6.8	**1,100**	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8
		2004 04 (Winter)	-	-	-	-	-	-	-	**450**	**16.0**	< 5.4	**10.0**	< 54.0	< 5.4	**900**	< 5.4	< 5.4	< 5.4	**6.4**	< 5.4	< 5.4	< 5.4	< 5.4	**11.0**
		2004 02 (Summer)	-	-	-	-	-	-	-	**520**	**21.0**	**7.5 J**	**23.0**	< 45.0	< 18.0	**940**	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0
		2003 04 (Winter)	-	-	-	-	-	-	-	**350**	**18.0**	**6.7**	**23.0**	< 5.0	< 2.0	**730**	< 2.0	**1.3 J**	< 2.0	**6.5**	**0.84 J**	< 2.0	< 2.0	< 2.0	**7.2**
		2003 03 (Fall)	-	-	-	-	-	-	-	**262**	**54.0**	< 20.0	< 20.0	< 100	< 20.0	**554**	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
		2003 02 (Summer)	-	-	-	-	-	-	-	**313**	**35.0**	< 29.0	< 29.0	**115 J**	< 29.0	**679**	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**440**	**29.0**	**6.2**	**26.0**	**3.0 J**	< 5.4	**640**	< 5.4	< 5.4	< 5.4	**3.4 J**	< 5.4	< 5.4	< 5.4	< 5.4	**14.0**
		2002 03 (Fall)	-	-	-	-	-	-	-	**630**	**27.0**	**12.0**	**67.0**	**4.5 J**	< 6.2	**1,200**	< 6.2	< 6.2	< 6.2	**6.2**	< 6.2	< 6.2	< 6.2	< 6.2	**6.5**
	MG2-02-M	2006 01 (Spring)	**16.0**	< 0.014	< 0.0014	< 0.0014	**13.0**	**66.0**	**5.4**	**200**	**24.0**	< 6.8	< 6.8	< 68.0 UJ	< 6.8	**350**	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8
		2005 02 (Summer)	**27.0**	< 0.013	< 0.0013	< 0.0013	**11.0**	**61.0**	**0.96**	**450 J**	**22.0**	**8.1**	**17.0**	< 38.0	< 3.8	**1,100**	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	**4.9**
		2005 01 (Spring)	**13.0**	< 0.014	**0.0023**	< 0.0014	**22.0**	**56.0**	**9.1**	**240**	< 14.0	< 14.0	< 14.0	< 140	< 14.0	**420**	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	-	-	-	-	-	-	-	**460**	**19.0**	< 5.6	**15.0**	< 56.0	< 5.6	**800**	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	**12.0**
		2004 02 (Summer)	-	-	-	-	-	-	-	**430**	**29.0**	**8.2 J**	**36.0**	< 41.0	< 17.0	**890**	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2004 01 (Spring)	-	-	-	-	-	-	-	**490**	**82.0**	**11.0**	**61.0**	**2.4 J**	< 11.0	**810**	< 2.2	**1.0 J**	< 2.2	**5.0**	**0.79 J**	< 2.2	< 2.2	< 2.2	**23.0**
		2003 04 (Winter)	-	-	-	-	-	-	-	**300**	**21.0**	**6.8**	**27.0**	**2.3 J**	< 2.0	**630**	< 2.0	**0.80 J**	< 2.0	**4.2**	**0.85 J**	< 2.0	< 2.0	< 2.0	**6.5**
		2003 03 (Fall)	-	-	-	-	-	-	-	**301 J**	**55.0 J**	**5.6**	< 4.0	< 20.0	< 4.0	**797**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons								
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-02-M	2003 02 (Summer)	-	-	-	-	-	-	-	**378**	**42.0**	< 22.0	< 22.0	**150**	< 22.0	**649**	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**420**	**43.0**	**7.0**	**31.0**	**7.2 J**	< 4.9	**650**	**2.6 J**	**4.0 J**	< 4.9	**3.4 J**	< 4.9	< 4.9	< 4.9	< 4.9	**14.0**
		2002 04 (Winter)	-	-	-	-	-	-	-	**420**	**40.0**	**9.6**	**44.0**	**6.9**	< 11.0	**680**	< 2.1	**0.99 J**	< 2.1	**5.6**	**0.78 J**	**0.75 J**	< 2.1	< 2.1	**20.0**
		2002 03 (Fall)	-	-	-	-	-	-	-	**380**	**26.0**	**11.0**	**50.0**	**10.0**	< 3.9	**850**	< 3.9	< 3.9	< 3.9	**2.9 J**	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9
	MG2-02-S	2006 01 (Spring)	**7.1**	< 0.013	< 0.0013	< 0.0013	**0.0070**	**81.0**	**12.0**	< 0.67	**1.5**	**1.6**	**6.4**	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**7.5**	< 0.014	< 0.0014	< 0.0014	**0.0013**	**79.0**	**13.0**	< 0.68 UJ	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	**0.088**	< 0.015	< 0.0015	< 0.0015	**0.0077**	**79.0**	**21.0**	< 0.73	**1.3**	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.72	**4.2**	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
		2004 02 (Summer)	-	-	-	-	-	-	-	**4.3**	**1.5 J**	< 1.9	**5.7**	**1.5 J**	< 9.4	**48.0**	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
		2004 01 (Spring)	-	-	-	-	-	-	-	**18.0**	**13.0**	**2.1**	**7.5**	**0.51**	< 1.0	**21.0**	**0.46**	**0.23**	< 0.20	**0.44**	**0.087 J**	**0.46**	< 0.20	< 0.20	**3.3**
		2003 04 (Winter)	-	-	-	-	-	-	-	**3.5**	**0.74 J**	< 2.0	< 2.0	**0.55 J**	< 2.0	**23.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	**8.9 J**	< 4.0	< 4.0	< 4.0	**43.0**	< 4.0	**78.0**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	**215**	< 4.0	**6.0**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**3.5**	**0.56 J**	< 0.96	**1.5 J**	**5.4 J**	< 4.8	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	**0.38 J**
		2002 04 (Winter)	-	-	-	-	-	-	-	**8.5**	**2.2**	**0.60 J**	**3.0**	**3.3**	< 5.2	**5.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.5**
		2002 03 (Fall)	-	-	-	-	-	-	-	**74.0**	**6.0**	**2.9**	**10.0**	**1.3 J**	< 2.0	**150**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	MG2-03-D	2005 02 (Summer)	**21.0**	< 0.014	< 0.0014	< 0.0014	**0.11**	**78.0**	**1.3**	< 0.68 UJ	**1.1**	< 0.68	< 0.68	< 6.8	< 0.68	**1.2**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	**17.0**	< 0.014	< 0.0014	< 0.0014	**4.2**	**76.0**	**1.8**	**5.4**	**19.0**	**8.6**	**29.0**	**24.0**	< 0.72	**4.9**	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	-	-	-	-	-	-	-	**1.2**	**28.0**	**0.87**	**1.5**	< 8.0	< 0.80	**3.8**	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	-	-	-	-	-	-	-	**3.7**	**5.8**	**2.7**	**6.6**	**2.2 J**	< 9.3	**35.0**	< 1.9	< 1.9	< 1.9	**0.60 J**	< 1.9	**0.60 J**	< 1.9	< 1.9	< 1.9
		2004 01 (Spring)	-	-	-	-	-	-	-	**6.3**	**3.6**	**1.6 J**	**2.8**	**1.7 J**	< 2.0	**13.0**	< 2.0	**0.93 J**	< 2.0	< 2.0	< 2.0	**0.69 J**	< 2.0	< 2.0	< 2.0
		2003 04 (Winter)	-	-	-	-	-	-	-	**4.5**	**2.6**	**1.5 J**	**4.0**	**1.3 J**	< 2.0	**18.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 4.0	**43.0**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 31.0	< 31.0	< 31.0	< 31.0	**163**	< 31.0	**82.0**	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**2.6 J**	**4.3 J**	**1.8 J**	**3.0 J**	**180**	< 5.4	**17.0**	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4
		2002 04 (Winter)	-	-	-	-	-	-	-	**12.0**	**6.6**	**2.8**	**6.1**	**4.3**	< 8.5	**23.0**	< 1.7	< 1.7	< 1.7	**0.83 J**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2002 03 (Fall)	-	-	-	-	-	-	-	**3.2 J**	**4.7**	**5.0**	**4.9**	**4.3 J**	**0.96 J**	**15.0**	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
	MG2-03-M	2006 01 (Spring)	**23.0**	< 0.020	< 0.0020	< 0.0020	**8.9**	**67.0**	**0.96**	**1.1**	**1.3**	< 1.0	< 1.0	< 10.0	< 1.0	**3.0**	**2.8**	**1.8**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	**8.8**	< 0.014	< 0.0014	< 0.0014	**0.0002**	**79.0**	**12.0**	< 0.68 UJ	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	**4.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	**20.0**	< 0.014	< 0.0014	< 0.0014	**9.0**	**70.0**	**1.6**	**0.73**	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	< 0.70	**3.3**	**0.81**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.79	< 0.79	< 0.79	< 0.79	< 7.9	< 0.79	< 0.79	**3.8**	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	-	-	-	-	-	-	-	**1.6**	**1.3 J**	**0.47 J**	**3.7**	**3.1**	< 4.7	**10.0**	**2.9**	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
		2004 01 (Spring)	-	-	-	-	-	-	-	**2.8**	**4.8**	**1.3 J**	< 2.0	**1.1 J**	< 2.0	**3.4**	**2.3**	**0.84 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 04 (Winter)	-	-	-	-	-	-	-	**0.82 J**	**0.63 J**	< 2.0	< 2.0	**0.96 J**	< 2.0	**6.2**	**1.9 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	**21.0**	< 4.0	**17.0**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 29.0	< 29.0	< 29.0	< 29.0	**174**	< 29.0	**130**	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0
		2003 01 (Spring)	-	-	-	-	-	-	-	< 2.0	**1.2 J**	**0.59 J**	**1.1 J**	**190**	< 2.0	**2.9**	**2.3**	**1.0 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2002 04 (Winter)	-	-	-	-	-	-	-	**2.0**	**3.6**	**0.85**	**1.4**	**2.9**	< 2.9	**6.6**	**4.1**	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	**0.43 J**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons								
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-03-M	2002 03 (Fall)	-	-	-	-	-	-	-	< 2.0	**0.92 J**	**1.2 J**	**0.99 J**	**0.89 J**	< 2.0	**3.3**	**4.5**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	MG2-03-S	2006 01 (Spring)	**2.9**	< 0.014	< 0.0014	< 0.0014	**0.27**	**79.0**	**18.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**1.8**	< 0.014	< 0.0014	< 0.0014	**0.0001**	**80.0**	**18.0**	< 0.68 UJ	**1.6**	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	**0.96**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	**8.2**	< 0.014	< 0.0014	< 0.0014	**2.2**	**77.0**	**12.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	**1.8**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2004 04 (Winter)	-	-	-	-	-	-	-	**6.0**	< 0.78	**1.7**	**6.5**	< 7.8	< 0.78	< 0.78	**1.4**	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
		2004 02 (Summer)	-	-	-	-	-	-	-	**2.0**	**0.99**	**0.40 J**	**2.6**	**1.6**	< 2.4	**5.7**	**2.5**	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
		2004 01 (Spring)	-	-	-	-	-	-	-	**2.1**	**3.3**	**0.78**	**1.5**	**1.2**	< 1.0	**2.7**	**1.6**	**0.46**	< 0.20	**0.11 J**	< 0.20	< 0.20	< 0.20	< 0.20	**0.33**
		2003 04 (Winter)	-	-	-	-	-	-	-	**0.80 J**	< 2.0	< 2.0	< 2.0	**0.65 J**	< 2.0	**4.4**	**2.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	**38.0**	< 4.0	**11.0**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 21.0	< 21.0	< 21.0	< 21.0	**99.0 J**	< 21.0	**229**	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0
		2003 01 (Spring)	-	-	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	**240**	< 2.0	**2.8**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2002 04 (Winter)	-	-	-	-	-	-	-	**0.84**	**1.8**	**0.22**	**0.95**	**3.7**	**0.15 J**	**4.8**	**1.0**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.12 J**
		2002 03 (Fall)	-	-	-	-	-	-	-	**0.42**	**0.39**	**0.15 J**	**0.91**	**2.6 J**	< 1.0	**5.0**	**1.5**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	MG2-04-D	2005 02 (Summer)	**27.0**	< 0.014	< 0.0014	< 0.0014	**19.0**	**53.0**	**0.78**	**16.0**	**54.0**	**62.0**	**100**	**4,500**	< 14.0	**720**	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	-	-	-	-	-	-	-	**14.0**	**10.0**	**6.0**	**18.0**	**220**	< 1.6	**420**	< 1.6	< 1.6	< 1.6	**2.3**	< 1.6	< 1.6	< 1.6	< 1.6	**4.3**
		2004 02 (Summer)	-	-	-	-	-	-	-	**18.0**	**41.0**	**60.0**	**170**	**1,900**	< 7.8	**640**	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8	< 7.8
		2003 04 (Winter)	-	-	-	-	-	-	-	**14.0**	**29.0**	**42.0**	**120**	**1,800**	< 2.0	**450**	< 2.0	< 2.0	< 2.0	**2.5**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	**26.0**	**87.0**	**47.0 J**	**122 J**	< 20.0	< 4.0	**473 J**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 42.0	**76.0**	**77.0**	**226**	**141 J**	< 42.0	**551**	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**16.0**	**67.0**	**97.0**	**260**	**5,000**	< 5.3	**470**	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3	< 5.3
		2002 03 (Fall)	-	-	-	-	-	-	-	**33.0**	**480**	**480**	**1,200**	**6,400 J**	< 18.0	**800**	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0
	MG2-04-M	2006 01 (Spring)	**22.0**	< 0.014	< 0.0014	< 0.0014	**20.0**	**57.0**	**0.79**	**11.0**	**13.0**	< 6.8	**7.4**	< 68.0	< 6.8	**550**	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8
		2005 02 (Summer)	**26.0**	< 0.014	< 0.0014	< 0.0014	**18.0**	**55.0**	**0.77**	**14.0**	**24.0**	**7.9**	**17.0**	**65.0**	< 4.0	**640**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	**8.6**
		2005 01 (Spring)	**20.0**	< 0.014	< 0.0014	< 0.0014	**24.0**	**55.0**	**0.86**	**17.0**	**10.0**	< 5.6	**12.0**	< 56.0	< 5.6	**480**	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	-	-	-	-	-	-	-	**17.0**	**19.0**	**14.0**	**49.0**	**720**	< 6.6	**610**	< 6.6	< 6.6	< 6.6	**3.0 J**	< 6.6	< 6.6	< 6.6	< 6.6	< 6.6
		2004 01 (Spring)	-	-	-	-	-	-	-	**22.0**	**17.0**	**9.2**	**41.0**	< 4.8	< 9.7	**400**	< 1.9	< 1.9	< 1.9	**2.7**	< 1.9	< 1.9	< 1.9	< 1.9	**3.7**
		2003 04 (Winter)	-	-	-	-	-	-	-	**15.0**	**12.0**	**11.0**	**45.0**	**510**	< 2.0	**420**	< 2.0	< 2.0	< 2.0	**2.4**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	**27.0 J**	**27.0 J**	**11.0**	**37.0**	< 20.0	< 4.0	**481**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 25.0	**30.0**	< 25.0	**48.0**	**107 J**	< 25.0	**583**	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**20.0**	**24.0**	**21.0**	**65.0**	**1,300**	< 7.3	**460**	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3	< 7.3
		2002 04 (Winter)	-	-	-	-	-	-	-	**29.0**	**12.0**	**16.0**	**64.0**	**670**	< 6.7	**490**	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7	< 6.7
		2002 03 (Fall)	-	-	-	-	-	-	-	**24.0**	**91.0**	**74.0**	**190**	**3,900**	< 18.0	**610**	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0	< 18.0
	MG2-04-S	2006 01 (Spring)	**15.0**	< 0.014	< 0.0014	< 0.0014	**0.0052**	**77.0**	**7.5**	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	**2.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**4.1**	< 0.014	< 0.0014	< 0.0014	**0.0023**	**79.0**	**17.0**	< 0.68	< 0.68	< 0.68	< 0.68	**11.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	**7.3**	< 0.014	< 0.0014	< 0.0014	**0.0020**	**82.0**	**11.0**	< 0.72	< 0.72	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	-	-	-	-	-	-	-	< 26.0	**41.0**	**56.0**	**100**	**4,500**	< 26.0	**570**	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0
		2004 02 (Summer)	-	-	-	-	-	-	-	**5.3**	**6.6**	**3.1**	**13.0**	**190**	< 4.9	**36.0**	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons								
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-04-S	2004 01 (Spring)	-	-	-	-	-	-	-	**1.3**	**1.8**	**0.72**	**2.9**	**6.7**	< 1.0	**9.7**	**0.27**	**0.094 J**	< 0.20	**0.11 J**	< 0.20	< 0.20	< 0.20	< 0.20	**0.22**
		2003 04 (Winter)	-	-	-	-	-	-	-	< 2.0	**2.1**	**1.1 J**	**5.0**	**350**	< 2.0	**23.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 40.0	< 40.0	< 40.0	< 40.0	**883**	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 25.0	< 25.0	< 25.0	< 25.0	**120 J**	< 25.0	**26.0**	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**1.1**	< 1.5	< 1.0	< 2.6	**4.3 J**	< 5.1	**6.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ
		2002 04 (Winter)	-	-	-	-	-	-	-	**2.7**	**4.4**	**0.74 J**	**3.7**	**3.3**	**0.51 J**	**7.9**	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93
		2002 03 (Fall)	-	-	-	-	-	-	-	< 2.0	**0.80 J**	< 2.0	< 2.0	**18.0 J**	< 2.0	**2.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
	MG2-05-D	2006 01 (Spring)	**14.0**	< 0.014	< 0.0014	< 0.0014	**0.070**	**80.0**	**6.4**	**0.75**	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	**2.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**11.0**	< 0.016	< 0.0016	< 0.0016	**0.012**	**78.0**	**11.0**	< 0.78 UJ	< 0.78	< 0.78	< 0.78	< 7.8	< 0.78	< 0.78	**0.78**	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.68	< 0.68	< 0.68	< 0.68	**26.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	-	-	-	-	-	-	-	**16.0**	**3.1**	**1.5 J**	**6.2**	**300**	< 10.0	**180**	**1.3 J**	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
		2003 04 (Winter)	-	-	-	-	-	-	-	< 2.0	**2.3**	**0.72 J**	**3.2**	**110**	< 2.0	**3.2**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 40.0	< 40.0	< 40.0	< 40.0	**510**	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 22.0	< 22.0	< 22.0	< 22.0	**447**	< 22.0	**56.0**	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0
		2003 01 (Spring)	-	-	-	-	-	-	-	**4.3**	< 2.0	< 2.0	< 2.0	**140**	< 2.0	**29.0**	**0.61 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2002 03 (Fall)	-	-	-	-	-	-	-	**36.0**	< 7.2	**2.6 J**	**5.0 J**	**1,100**	< 7.2	**830**	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2	< 7.2
	MG2-05-S	2006 01 (Spring)	**1.6**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**20.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	**1.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**2.8**	< 0.014	< 0.0014	< 0.0014	**0.0002**	**79.0**	**18.0**	< 0.68 UJ	< 0.68	< 0.68	< 0.68	< 6.8	< 0.68	< 0.68	**11.0**	**1.0**	< 0.68	**1.2**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
		2005 01 (Spring)	**2.2**	< 0.014	< 0.0014	< 0.0014	**0.0002**	**78.0**	**19.0**	< 0.72	< 0.72	< 0.72	< 0.72	< 7.2	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.74	< 0.74	< 0.74	< 0.74	< 7.4	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	-	-	-	-	-	-	-	**3.4**	**0.61 J**	< 2.0	< 2.0	**380**	< 2.0	**16.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 01 (Spring)	-	-	-	-	-	-	-	**0.61**	**0.67**	**0.14 J**	**0.92**	**7.5**	< 1.0	**1.3**	**0.14 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	-	-	-	-	-	-	-	< 2.0	**1.1 J**	< 2.0	< 2.0	**80.0**	< 2.0	**1.6 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	-	-	-	-	-	-	-	< 40.0	< 40.0	< 40.0	< 40.0	**839**	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 24.0	< 24.0	< 24.0	**55.0**	**398**	< 24.0	**126**	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0
		2003 01 (Spring)	-	-	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	**170**	< 2.0	**2.2**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2002 04 (Winter)	-	-	-	-	-	-	-	**0.36 J**	**1.8**	**0.38 J**	**2.1**	**50.0**	< 2.2	**5.8**	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
		2002 03 (Fall)	-	-	-	-	-	-	-	< 3.5	**1.5 J**	**1.9 J**	**6.2**	**1,100**	< 3.5	**6.8**	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																				
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-01-D	2006 01 (Spring)	**9.2**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	**1.5**	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**12.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2004 04 (Winter)	**61.0**	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	-	< 0.73	< 0.73	< 1.0	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73
		2004 02 (Summer)	< 3.6	**0.096 J**	< 0.20	< 0.20	**0.090 J**	< 0.40	**1.3**	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.77 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	**19.0**	< 0.20	< 0.20	< 0.20	**0.12 J**	< 0.40	**0.13 J**	**0.35 J**	< 0.20	**0.23 J**	**0.25**	**0.063 J**	< 1.0	< 0.20	< 0.20	< 0.20	**5.6**	< 0.40	**0.27 J**	< 0.20	< 0.20
		2003 04 (Winter)	**2.5 J**	< 0.20	< 0.20	< 0.20	**0.091 J**	**0.19 J**	**0.40**	< 0.40	< 0.20	< 0.40	**0.099 J**	**0.35 J**	< 1.0	< 0.20	< 0.20	< 0.20	**0.60 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 02 (Summer)	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 01 (Spring)	**1.3 J**	< 0.91	< 0.91	< 0.91	< 0.91	< 1.8	< 0.91	< 1.8	< 0.91	**0.73 J**	< 0.91	< 0.91	< 4.5	< 0.91	< 0.91	< 0.91	< 4.5	< 1.8	< 1.8	< 0.91	< 0.91
		2002 03 (Fall)	**12.0**	< 0.20	< 0.20	< 0.20	**0.081 J**	**0.56**	< 0.20	< 0.40	< 0.20	**2.2**	**0.16 J**	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	**1.1**	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-01-S	2006 01 (Spring)	**17.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	**1.4**	< 0.68	< 0.68	< 0.68	**2.4**	< 2.7	< 0.68	< 0.68	< 0.68
		2005 02 (Summer)	**2.8**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	**0.86**	< 2.7 UJ	< 0.67 UJ	< 0.67	< 0.67
		2005 01 (Spring)	**3.1**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	**8.7**	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	-	< 0.79	< 0.79	< 1.0	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	**6.6**	< 0.20	< 0.20	< 0.20	**0.10 J**	< 0.40	**0.25**	**0.25 J**	< 0.20	**0.051 J**	< 0.20	**0.25 J**	< 1.0	< 0.20	< 0.20	< 0.20	**1.0**	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	< 1.9	< 0.20	< 0.20	< 0.20	**0.11 J**	< 0.40	**0.12 J**	**0.41**	< 0.20	**0.30 J**	**0.25**	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.38 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**0.53 J**	< 0.20	< 0.20	< 0.20	**0.091 J**	**0.37 J**	**0.61**	< 0.40	< 0.20	< 0.40	< 0.20	**0.15 J**	< 1.0	< 0.20	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 02 (Summer)	**6.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2003 01 (Spring)	**1.6 J**	< 0.90	< 0.90	< 0.90	< 0.90	< 1.8	< 0.90	< 1.8	< 0.90	**0.73 J**	< 0.90	< 0.90	< 4.5	< 0.90	< 0.90	< 0.90	< 4.5	< 1.8	< 1.8	< 0.90	< 0.90
		2002 04 (Winter)	< 1.7	< 0.41	< 0.41	< 0.41	< 0.41	< 0.83	< 0.41	**0.26 J**	< 0.41	**0.17 J**	< 0.41	< 0.41	< 2.1	< 0.41	< 0.41	< 0.41	< 2.1	< 0.83 UJ	< 0.83	< 0.41	< 0.41
		2002 03 (Fall)	**2.6**	< 0.20	< 0.20	< 0.20	**0.096 J**	< 0.40	**0.10 J**	< 0.40	< 0.20	**0.56**	**0.13 J**	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	**0.38 J**	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-02-D	2005 02 (Summer)	< 27.0	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	**50.0**	< 6.8	< 6.8	< 1.0	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0 UJ	< 6.8 UJ	< 6.8	< 6.8
		2004 04 (Winter)	< 22.0	< 5.4	< 5.4	< 5.4	< 5.4	**5.7**	< 5.4	< 22.0	< 5.4	-	< 5.4	< 5.4	< 1.0	< 5.4	< 5.4	< 5.4	< 5.4	< 22.0	< 5.4	< 5.4	< 5.4
		2004 02 (Summer)	< 91.0	< 18.0	< 18.0	< 18.0	< 18.0	**10.0 J**	< 18.0	< 36.0	< 18.0	**64.0**	< 18.0	< 18.0	< 91.0	< 18.0	< 18.0	< 18.0	< 91.0	< 91.0	< 91.0	< 18.0	< 18.0
		2003 04 (Winter)	**7.3 J**	< 2.0	< 2.0	< 2.0	< 2.0	**7.0**	< 2.0	< 4.0	< 2.0	**59.0**	**1.8 J**	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 100	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 100	< 100	< 100	< 20.0	< 20.0
		2003 02 (Summer)	< 140	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	**59.0**	< 29.0	< 29.0	< 29.0 UJ	< 29.0	< 29.0	< 29.0	< 140	< 140	< 140	< 29.0	< 29.0
		2003 01 (Spring)	< 27.0	< 5.4	< 5.4	< 5.4	< 5.4	< 11.0	< 5.4	< 11.0	< 5.4	**47.0**	< 5.4	< 5.4	< 27.0	< 5.4	< 5.4	< 5.4	< 27.0	< 27.0	< 27.0	< 5.4	< 5.4
		2002 03 (Fall)	**9.1 J**	< 6.2	< 6.2	< 6.2	< 6.2	**17.0**	< 6.2	< 12.0	< 6.2	**81.0**	< 6.2	< 6.2	< 31.0	< 6.2	< 6.2	< 6.2	< 31.0	< 31.0	< 31.0	< 6.2	< 6.2
	MG2-02-M	2006 01 (Spring)	**39.0**	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	**10.0**	< 6.8	< 6.8	**13.6**	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	< 6.8 UJ	< 6.8
		2005 02 (Summer)	< 15.0	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 15.0	< 3.8	**54.0**	< 3.8	< 3.8	< 1.0	< 3.8	< 3.8	< 3.8	< 3.8	< 15.0 UJ	< 3.8 UJ	< 3.8	< 3.8
		2005 01 (Spring)	< 56.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 56.0	< 14.0	**21.0**	< 14.0	< 14.0	< 1.0	< 14.0	< 14.0	< 14.0	< 14.0	< 56.0	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	< 22.0	< 5.6	< 5.6	< 5.6	< 5.6	**6.0**	< 5.6	< 22.0	< 5.6	-	< 5.6	< 5.6	< 1.0	< 5.6	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	< 5.6	< 5.6
		2004 02 (Summer)	**40.0 J**	< 17.0	< 17.0	< 17.0	< 17.0	**11.0 J**	< 17.0	< 33.0	< 17.0	**74.0**	< 17.0	< 17.0	< 83.0	< 17.0	< 17.0	< 17.0	< 83.0	< 83.0	< 83.0	< 17.0	< 17.0
		2004 01 (Spring)	**12.0**	< 2.2	< 2.2	**1.0 J**	< 2.2	**13.0**	< 2.2	< 4.3	< 2.2	**77.0**	**2.0 J**	< 2.2	< 11.0	< 2.2	< 2.2	< 2.2	< 11.0	< 4.3	< 4.3	< 2.2	< 2.2
		2003 04 (Winter)	**50.0**	< 2.0	< 2.0	< 2.0	< 2.0	**8.0**	< 2.0	< 4.0	< 2.0	**59.0**	**2.3**	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	**12.0**	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																				
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-02-M	2003 02 (Summer)	< 110	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0 UJ	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	< 25.0	< 4.9	< 4.9	< 4.9	< 4.9	< 9.8	< 4.9	< 9.8	< 4.9	**59.0**	< 4.9	< 4.9	< 25.0	< 4.9	< 4.9	< 4.9	< 25.0	< 25.0	< 25.0	< 4.9	< 4.9
		2002 04 (Winter)	< 9.6	< 2.1	< 2.1	< 2.1	< 2.1	**22.0**	< 2.1	< 4.2	< 2.1	**93.0 J**	**3.7**	< 2.1	< 11.0	< 2.1	< 2.1	< 2.1	< 11.0	< 4.2 UJ	< 4.2	< 2.1	< 2.1
		2002 03 (Fall)	**24.0**	< 3.9	< 3.9	< 3.9	< 3.9	**6.5 J**	< 3.9	< 7.8	< 3.9	**64.0**	< 3.9	**1.3 J**	< 20.0	< 3.9	< 3.9	< 3.9	**4.8 J**	< 20.0	< 20.0	< 3.9	< 3.9
	MG2-02-S	2006 01 (Spring)	**11.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	**3.6**	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**120**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	**12.0**	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	< 1.0	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73
		2004 04 (Winter)	**3.5**	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	-	< 0.72	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 02 (Summer)	**10.0**	< 1.9	< 1.9	< 1.9	< 1.9	< 3.8	**1.1 J**	< 3.8	< 1.9	**5.7**	< 1.9	< 1.9	< 9.4	< 1.9	< 1.9	< 1.9	< 9.4	< 3.8	< 3.8	< 1.9	< 1.9
		2004 01 (Spring)	**150**	< 0.20	< 0.20	< 0.20	< 0.20	**1.5**	< 0.20	**0.59**	< 0.20	**5.2**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**9.1**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**4.8 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	**2.6**	< 4.0	< 2.0	**3.4**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 21.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0 UJ	< 4.0	< 4.0	< 4.0	< 21.0	< 21.0	< 21.0	< 4.0	< 4.0
		2003 01 (Spring)	**5.6**	< 0.96	< 0.96	< 0.96	< 0.96	< 1.9	**0.31 J**	< 1.9	< 0.96	**1.4 J**	< 0.96	< 0.96	< 4.8	< 0.96	< 0.96	< 0.96	< 4.8	< 1.9	< 1.9	< 0.96	< 0.96
		2002 04 (Winter)	**17.0**	< 1.0	< 1.0	< 1.0	< 1.0	**2.3**	**0.71 J**	< 2.1	< 1.0	**3.0**	**4.8**	< 1.0	< 5.2	< 1.0	< 1.0	< 1.0	**1.6 J**	< 2.1	< 2.1	< 1.0	< 1.0
		2002 03 (Fall)	**6.4 J**	< 2.0	< 2.0	< 2.0	< 2.0	**1.3 J**	< 2.0	< 4.0	< 2.0	**13.0**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-03-D	2005 02 (Summer)	**18.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	**0.81**	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	**0.92**	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	**6.0**	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	**3.7**	**2.8**	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	**32.0**	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	-	< 0.80	< 0.80	< 1.0	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	**12.0**	< 1.9	< 1.9	< 1.9	< 1.9	< 3.7	< 1.9	< 3.7	< 1.9	**12.0**	< 1.9	< 1.9	< 9.3	< 1.9	< 1.9	< 1.9	< 9.3	< 3.7	< 3.7	< 1.9	< 1.9
		2004 01 (Spring)	**5.7 J**	< 2.0	< 2.0	< 2.0 UJ	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**6.4**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	**5.5 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**8.0**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 150	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0 UJ	< 31.0	< 31.0	< 31.0	< 150	< 150	< 150	< 31.0	< 31.0
		2003 01 (Spring)	**7.3 J**	< 5.4	< 5.4	< 5.4	< 5.4	< 11.0	< 5.4	< 11.0	< 5.4	**8.7**	< 5.4	< 5.4	< 27.0	< 5.4	< 5.4	< 5.4	< 27.0	< 27.0	< 27.0	< 5.4	< 5.4
		2002 04 (Winter)	< 6.8	< 1.7	< 1.7	< 1.7	< 1.7	< 3.4	< 1.7	< 3.4	< 1.7	**15.0**	< 1.7	**1.3 J**	< 8.5	< 1.7	< 1.7	< 1.7	< 8.5	< 3.4 UJ	< 3.4	< 1.7	< 1.7
		2002 03 (Fall)	**7.2 J**	< 3.6	< 3.6	< 3.6	< 3.6	< 7.2	< 3.6	< 7.2	< 3.6	< 3.6	< 3.6	**3.1 J**	< 18.0	< 3.6	< 3.6	< 3.6	< 18.0	< 18.0	< 18.0	< 3.6	< 3.6
	MG2-03-M	2006 01 (Spring)	**22.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	**8.1**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	**2.0**	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	**16.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	**3.1**	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	**3.8**	< 3.2	< 0.79	-	< 0.79	< 0.79	< 1.0	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	**6.2**	< 0.95	< 0.95	< 0.95	< 0.95	< 1.9	**0.59 J**	**0.83 J**	< 0.95	**2.2**	< 0.95	< 0.95	< 4.7	< 0.95	< 0.95	< 0.95	< 4.7	< 1.9	< 1.9	< 0.95	< 0.95
		2004 01 (Spring)	**7.9 J**	< 2.0	< 2.0	< 2.0 UJ	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**1.4 J**	< 2.0	**0.60 J**	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	**4.8 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**1.7 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 140	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0	< 29.0 UJ	< 29.0	< 29.0	< 29.0	< 140	< 140	< 140	< 29.0	< 29.0
		2003 01 (Spring)	**12.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**0.71 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	**5.0 J**	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	**16.0**	< 0.57	< 0.57	< 0.57	< 0.57	< 1.1	< 0.57	< 1.1	< 0.57	**1.9**	**0.29 J**	**0.69**	< 2.9	< 0.57	< 0.57	< 0.57	**0.94 J**	< 1.1 UJ	< 1.1	< 0.57	< 0.57

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																				
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-03-M	2002 03 (Fall)	**9.5 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	**0.58 J**	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-03-S	2006 01 (Spring)	**6.7**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	**1.4**	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**5.9**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	**1.8**	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	**6.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	**1.2**	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 04 (Winter)	**10.0**	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	-	< 0.78	< 0.78	< 1.0	< 0.78	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78
		2004 02 (Summer)	**10.0**	< 0.49	< 0.49	< 0.49	< 0.49	< 0.98	**0.44 J**	**0.36 J**	< 0.49	**1.5**	< 0.49	< 0.49	< 2.4	< 0.49	< 0.49	< 0.49	**1.4 J**	< 0.98	< 0.98	< 0.49	< 0.49
		2004 01 (Spring)	**3.8**	< 0.20	< 0.20	< 0.20	**0.096 J**	**0.39 J**	**0.81**	**0.24 J**	< 0.20	**1.4**	< 0.20	**0.38**	< 1.0	< 0.20	< 0.20	< 0.20	**0.55 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**4.9 J**	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	**1.2 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 110	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	< 21.0	**22.0**	< 21.0	< 21.0	< 21.0 UJ	< 21.0	< 21.0	< 21.0	< 110	< 110	< 110	< 21.0	< 21.0
		2003 01 (Spring)	**3.4 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	**1.5**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	**0.15 J**	< 0.20	**0.77**	< 0.20	**0.12 J**	< 1.0	< 0.20	< 0.20	< 0.20	**0.26 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	**3.4**	< 0.20	< 0.20	< 0.20	**0.095 J**	< 0.40	**0.27**	**0.36 J**	< 0.20	**0.77**	< 0.20	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	**0.40 J**	< 0.40	< 0.40	< 0.20	< 0.20
	MG2-04-D	2005 02 (Summer)	< 54.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 14.0	< 54.0	< 14.0	**44.0**	< 14.0	< 14.0	< 1.0	< 14.0	< 14.0	< 14.0	< 14.0	< 54.0 UJ	< 14.0	< 14.0	< 14.0
		2004 04 (Winter)	**11.0**	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 6.2	< 1.6	-	< 1.6	< 1.6	< 1.0	< 1.6	< 1.6	< 1.6	< 1.6	< 6.2	< 1.6	< 1.6	< 1.6
		2004 02 (Summer)	**9.9 J**	< 7.8	< 7.8	< 7.8	< 7.8	< 16.0	< 7.8	< 16.0	< 7.8	**46.0**	< 7.8	< 7.8	< 39.0	< 7.8	< 7.8	< 7.8	< 39.0	< 39.0	< 39.0	< 7.8	< 7.8
		2003 04 (Winter)	**9.5 J**	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	**39.0**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 210	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	**43.0**	< 42.0	< 42.0	< 42.0 UJ	< 42.0	< 42.0	< 42.0	< 210	< 210	< 210	< 42.0	< 42.0
		2003 01 (Spring)	**23.0 J**	< 5.3	< 5.3	< 5.3	< 5.3	< 11.0	< 5.3	< 11.0	< 5.3	**63.0**	< 5.3	**20.0**	< 26.0	< 5.3	< 5.3	< 5.3	**6.3 J**	< 26.0	< 26.0	< 5.3	< 5.3
		2002 03 (Fall)	**95.0**	< 18.0	< 18.0	< 18.0	< 18.0	< 36.0	< 18.0	< 36.0	< 18.0	< 18.0	< 18.0	**83.0**	< 91.0	< 18.0	< 18.0	< 18.0	**35.0 J**	< 91.0	< 91.0	< 18.0	< 18.0
	MG2-04-M	2006 01 (Spring)	< 27.0	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	**7.2**	< 6.8	< 6.8	**13.6**	**380**	< 6.8	< 6.8	< 6.8	< 27.0	< 6.8	< 6.8	< 6.8
		2005 02 (Summer)	< 16.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 16.0	< 4.0	**17.0**	< 4.0	< 4.0	< 1.0	< 4.0	< 4.0	< 4.0	< 4.0	< 16.0 UJ	< 4.0	< 4.0	< 4.0
		2005 01 (Spring)	< 22.0	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	**13.0**	< 5.6	< 5.6	< 1.0	< 5.6	< 5.6	< 5.6	< 5.6	< 22.0	< 5.6	< 5.6	< 5.6
		2004 04 (Winter)	**5.4**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	**0.76**	< 2.7	< 0.68	-	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	**21.0 J**	< 6.6	< 6.6	< 6.6	< 6.6	< 13.0	< 6.6	< 13.0	< 6.6	**30.0**	< 6.6	< 6.6	< 33.0	< 6.6	< 6.6	< 6.6	< 33.0	< 33.0	< 33.0	< 6.6	< 6.6
		2004 01 (Spring)	**6.7 J**	< 1.9	< 1.9	< 1.9	< 1.9	< 3.9	< 1.9	< 3.9	< 1.9	**17.0**	< 1.9	< 1.9	< 9.7	< 1.9	< 1.9	< 1.9	< 9.7	< 3.9	< 3.9	< 1.9	< 1.9
		2003 04 (Winter)	**22.0**	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	**28.0**	**1.2 J**	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	**5.1 J**	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 20.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 02 (Summer)	< 125	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0 UJ	< 25.0	< 25.0	< 25.0	< 125	< 125	< 125	< 25.0	< 25.0
		2003 01 (Spring)	**7.8 J**	< 7.3	< 7.3	< 7.3	< 7.3	< 15.0	< 7.3	< 15.0	< 7.3	**30.0**	< 7.3	< 7.3	< 37.0	< 7.3	< 7.3	< 7.3	< 37.0	< 37.0	< 37.0	< 7.3	< 7.3
		2002 04 (Winter)	< 34.0	< 6.7	< 6.7	< 6.7	< 6.7	< 13.0	< 6.7	< 13.0 UJ	< 6.7	**24.0**	< 6.7	< 6.7	< 34.0	< 6.7	< 6.7	< 6.7	< 34.0	< 34.0	< 34.0	< 6.7	< 6.7
		2002 03 (Fall)	**29.0 J**	< 18.0	< 18.0	< 18.0	< 18.0	< 36.0	< 18.0	< 36.0	< 18.0	< 18.0	< 18.0	**8.1 J**	< 90.0	< 18.0	< 18.0	< 18.0	< 90.0	< 90.0	< 90.0	< 18.0	< 18.0
	MG2-04-S	2006 01 (Spring)	**4.8**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	**1.4**	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**5.9**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	**0.86**	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	**0.92**	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	**8.2**	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	< 100	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 26.0	< 100	< 26.0	-	< 26.0	< 26.0	< 1.0	< 26.0	< 26.0	< 26.0	< 26.0	< 100	< 26.0	< 26.0	< 26.0
		2004 02 (Summer)	**9.6**	< 0.98	< 0.98	< 0.98	< 0.98	< 2.0	< 0.98	**2.4**	< 0.98	**4.3**	< 0.98	**0.42 J**	< 4.9	< 0.98	< 0.98	< 0.98	**1.0 J**	< 2.0	< 2.0	< 0.98	< 0.98

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 4-12
Soil Gas Analytical Results at IR Site 2: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																					
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	MG2-04-S	2004 01 (Spring)	**12.0**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.42**	**1.4**	< 0.20	**1.4**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**2.2**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**6.9 J**	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	**2.9**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	**3.7 J**	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 200	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 125	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0 UJ	< 25.0	< 25.0	< 25.0	< 125	< 125	< 125	< 25.0	< 25.0
		2003 01 (Spring)	**2.8 J**	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 2.0 UJ	< 1.0	< 2.0	< 1.0	**0.53 J**	< 1.0	< 1.0	< 5.1	< 1.0	< 1.0	< 1.0	< 5.1	< 2.0	< 2.0	< 1.0	< 1.0
		2002 04 (Winter)	**3.8**	< 0.93	< 0.93	< 0.93	< 0.93	< 1.9	< 0.93	< 1.9	< 0.93	**1.5 J**	< 0.93	**0.32 J**	< 4.6	< 0.93	< 0.93	< 0.93	< 4.6	< 1.9	< 1.9	< 0.93	< 0.93
		2002 03 (Fall)	**3.8 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
	MG2-05-D	2006 01 (Spring)	**6.6**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	**1.4**	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**41.0**	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 0.78	< 1.0	< 0.78	< 0.78	< 0.78	**2.5**	< 3.1 UJ	< 0.78 UJ	< 0.78	< 0.78
		2004 04 (Winter)	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	-	**5.6**	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2004 02 (Summer)	**17.0**	< 2.1	< 2.1	< 2.1	< 2.1	< 4.2	< 2.1	< 4.2	< 2.1	**2.6 J**	< 2.1	< 2.1	< 10.0	< 2.1	< 2.1	< 2.1	**5.0 J**	< 4.2	< 4.2	< 2.1	< 2.1
		2003 04 (Winter)	**9.8 J**	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	**0.77 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	**3.3 J**	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 200	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 110	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0 UJ	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	**2.4 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**0.67 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 03 (Fall)	< 36.0	< 7.2	< 7.2	< 7.2	< 7.2	< 14.0	< 7.2	< 14.0	< 7.2	**5.8 J**	< 7.2	< 7.2	< 36.0	< 7.2	< 7.2	< 7.2	< 36.0	< 36.0	< 36.0	< 7.2	< 7.2
	MG2-05-S	2006 01 (Spring)	**8.1**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	**0.93**	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**3.9**	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	< 1.0	< 0.68	< 0.68	< 0.68	**0.68**	< 2.7 UJ	< 0.68 UJ	< 0.68	< 0.68
		2005 01 (Spring)	**18.0**	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 1.0	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72
		2004 04 (Winter)	**6.8**	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	-	< 0.74	< 0.74	< 1.0	< 0.74	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	**9.5 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**0.71 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2004 01 (Spring)	**9.0**	< 0.20	< 0.20	< 0.20	**0.13 J**	< 0.40	**0.078 J**	**0.83**	< 0.20	**0.35 J**	**0.20**	**0.28**	< 1.0	< 0.20	< 0.20	< 0.20	**2.6**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**3.4 J**	< 2.0	< 2.0	< 2.0	< 2.0 UJ	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 200	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 40.0	< 200	< 200	< 200	< 40.0	< 40.0
		2003 02 (Summer)	< 120	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0	< 24.0 UJ	< 24.0	< 24.0	< 24.0	< 120	< 120	< 120	< 24.0	< 24.0
		2003 01 (Spring)	**5.7 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	**1.4 J**	< 2.0	**0.54 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	**3.6**	< 0.43	< 0.43	< 0.43	< 0.43	< 0.86	**0.46**	< 0.86	< 0.43	**0.64 J**	**0.47**	< 0.43	< 2.2	< 0.43	< 0.43	< 0.43	**0.60 J**	< 0.86	< 0.86	< 0.43	< 0.43
		2002 03 (Fall)	**6.3 J**	< 3.5	< 3.5	< 3.5	< 3.5	< 7.0	< 3.5	< 7.0	< 3.5	< 3.5	< 3.5	< 3.5	< 18.0	< 3.5	< 3.5	< 3.5	< 18.0	< 18.0	< 18.0	< 3.5	< 3.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	11	30	12.0 J	M024-A	24 Apr 2006	12.0 J	M024-A	2003 03 (Fall)
Benzene (UG/L)	9	30	36.0	M037-A	06 Sep 2005	47.0 J	M037-A	2003 04 (Winter)
TPH-Diesel (UG/L)	8	29	370	M039-A	26 Apr 2006	8900	M039-A	2004 04 (Winter)
Bromobenzene (UG/L)	1	30	0.20 J	M039-A	26 Apr 2006	0.20 J	M039-A	2005 01 (Spring)
TPH-Jet Fuel (UG/L)	9	29	490	M039-A	26 Apr 2006	2800	M039-A	2005 01 (Spring)
Toluene (UG/L)	5	30	1.3	M039-A	06 Sep 2005	1.6	M039-A	2003 04 (Winter)
Trichloroethene (UG/L)	1	30	0.20 J	M011-A	20 Apr 2006	1.7	M024-A	2002 04 (Winter)
Ethylbenzene (UG/L)	4	30	5.2	M039-A	06 Sep 2005	7.0	M039-A	2005 01 (Spring)
TPH-Motor Oil (UG/L)	7	29	650	M038-A	25 Apr 2006	8800	M039-A	2004 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	6	30	0.90	M024-E	06 Sep 2005	1.2	M011-A	2002 03 (Fall)
M,P-xylenes (UG/L)	4	30	8.4	M039-A	06 Sep 2005	9.4	M039-A	2005 01 (Spring)
TPH-Gasoline (UG/L)	9	29	480	M024-A	24 Apr 2006	740	M024-A	2002 04 (Winter)
O-xylene (UG/L)	6	30	5.3	M039-A	06 Sep 2005	5.5	M039-A	2005 01 (Spring)
1,1-Dichloroethane (UG/L)	4	30	0.70	M016-A	20 Apr 2006	0.40 J	M016-A	2005 01 (Spring)
Naphthalene (UG/L)	7	30	190	M039-A	06 Sep 2005	290	M039-A	2004 01 (Spring)
1,2-Dichloroethane (UG/L)	2	30	1.0	M011-A	31 Aug 2005	1.0	M011-A	2002 03 (Fall)
Carbon Disulfide (UG/L)	7	30	2.7	M023-A	07 Sep 2005	25.0	M021-A	2002 03 (Fall)
1,1,1-Trichloroethane (UG/L)	5	30	8.0	M019-E	01 Sep 2005	--	NA	NA
Chlorobenzene (UG/L)	9	30	320	M024-A	24 Apr 2006	410 J	M024-A	2005 01 (Spring)
1,2-Dichlorobenzene (UG/L)	7	30	1.0	M039-A	26 Apr 2006	1.0	M039-A	2005 01 (Spring)
Chloroethane (UG/L)	4	30	7.9	M036-A	24 Apr 2006	14.0 J	M036-A	2003 01 (Spring)
Vinyl Chloride (UG/L)	2	30	1.0	442-MW1	20 Apr 2006	0.70	M024-E	2002 04 (Winter)
1,3-Dichlorobenzene (UG/L)	7	30	2.8	M024-A	06 Sep 2005	2.9	M024-A	2004 01 (Spring)
1,4-Dichlorobenzene (UG/L)	10	30	19.0	M039-A	26 Apr 2006	24.0	M024-A	2002 04 (Winter)
2-Chlorotoluene (UG/L)	3	30	1.2	M016-A	20 Apr 2006	1.8	M038-A	2002 04 (Winter)
Isopropylbenzene (UG/L)	5	30	3.6	M039-A	26 Apr 2006	5.0	M039-A	2005 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Isopropyl Ether (UG/L)	5	30	1.2	M039-A	06 Sep 2005	2.3 J	M039-A	2003 01 (Spring)
Methylene Chloride (UG/L)	2	30	0.30 J	M016-A	20 Apr 2006	0.74 J	M021-A	2003 04 (Winter)
Methyl isobutyl ketone (MIBK) (UG/L)	1	30	0.20 J	M023-A	07 Sep 2005	--	NA	NA
n-Butylbenzene (UG/L)	4	30	1.1 J	M024-A	06 Sep 2005	1.8	M024-A	2003 03 (Fall)
n-Propylbenzene (UG/L)	5	30	3.3	M039-A	26 Apr 2006	5.8	M039-A	2002 04 (Winter)
p-Isopropyltoluene (UG/L)	1	30	0.80 J	M039-A	06 Sep 2005	0.80 J	M039-A	2003 01 (Spring)
sec-Butylbenzene (UG/L)	5	30	1.9	M024-A	06 Sep 2005	2.2	M024-A	2003 03 (Fall)
Tert-butyl alcohol (UG/L)	10	27	33.0	M038-A	14 Sep 2005	47.0 J	M038-A	2003 01 (Spring)
Tert-butylbenzene (UG/L)	4	30	1.1	M036-A	06 Sep 2005	1.6	M024-A	2002 04 (Winter)
Tert-butyl ethyl ether (UG/L)	1	30	0.10 J	M037-A	06 Sep 2005	1.8 J	M037-A	2003 04 (Winter)
1,2,4-Trimethylbenzene (UG/L)	3	30	5.0	M039-A	06 Sep 2005	4.5	M039-A	2004 01 (Spring)
1,3,5-Trimethylbenzene (UG/L)	2	30	2.2	M039-A	06 Sep 2005	1.7	M039-A	2004 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	8	13	1.7 J	M037-B	07 Sep 2005	1.9 J	M013-C	2004 02 (Summer)
TPH-Diesel (UG/L)	2	13	44.0 J	M013-C	19 Apr 2006	600	M036-B	2004 04 (Winter)
TPH-Jet Fuel (UG/L)	2	13	66.0	M016-B	20 Apr 2006	3200	M014-B	2004 04 (Winter)
TPH-Motor Oil (UG/L)	2	13	160 J	M010-B	20 Apr 2006	560	M036-B	2003 02 (Summer)
TPH-Gasoline (UG/L)	1	13	21.0 J	M010-B	31 Aug 2005	32.0 J	M023-B	2002 04 (Winter)
Carbon Disulfide (UG/L)	3	13	0.20 J	M023-C	07 Sep 2005	0.90	M020-B	2002 02 (Summer)
1,1,1-Trichloroethane (UG/L)	1	13	0.60	M010-B	31 Aug 2005	--	NA	NA
Chlorobenzene (UG/L)	1	13	0.50 J	M023-B	06 Sep 2005	0.20 J	M010-B	2004 04 (Winter)
1,3-Dichlorobenzene (UG/L)	2	13	0.10 J	M021-C	24 Apr 2006	--	NA	NA
Tert-butyl alcohol (UG/L)	1	13	5.3 J	M037-B	07 Sep 2005	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
Acenaphthene (UG/L)	6	29	22.0	M039-A	26 Apr 2006	30.0 J	M024-A	2004 04 (Winter)
Anthracene (UG/L)	5	29	0.58	M037-A	06 Sep 2005	0.89	M037-A	2003 02 (Summer)
Benzo(g,h,i)perylene (UG/L)	3	29	2.4 J	M013-A	31 Aug 2005	--	NA	NA
Fluoranthene (UG/L)	11	29	1.2	M037-A	06 Sep 2005	1.9	M037-A	2003 04 (Winter)
Fluorene (UG/L)	5	29	7.8	M039-A	26 Apr 2006	9.2	M039-A	2005 01 (Spring)
Indeno(1,2,3-c,d)pyrene (UG/L)	1	29	2.8 J	M014-A	31 Aug 2005	0.15 J	M037-A	2003 01 (Spring)
Naphthalene (UG/L)	7	30	190	M039-A	06 Sep 2005	290	M039-A	2004 01 (Spring)
Phenanthrene (UG/L)	9	29	1.8	M039-A	26 Apr 2006	4.5	M039-A	2005 01 (Spring)
Benzoic acid (UG/L)	1	29	18.0 J	M022-A	01 Sep 2005	20.0 J	M011-A	2005 01 (Spring)
bis(2-Ethylhexyl)phthalate (UG/L)	12	29	13.0	M017-A	01 Sep 2005	320	M023-A	2004 01 (Spring)
2-Chlorophenol (UG/L)	1	29	1.4 J	M024-A	24 Apr 2006	1.1 J	M024-A	2004 04 (Winter)
Dibenzofuran (UG/L)	3	29	7.2 J	M039-A	26 Apr 2006	7.5 J	M039-A	2002 04 (Winter)
1,2-Dichlorobenzene (UG/L)	7	30	1.0	M039-A	26 Apr 2006	1.0	M039-A	2005 01 (Spring)
1,3-Dichlorobenzene (UG/L)	7	30	2.8	M024-A	06 Sep 2005	2.9	M024-A	2004 01 (Spring)
1,4-Dichlorobenzene (UG/L)	10	30	19.0	M039-A	26 Apr 2006	24.0	M024-A	2002 04 (Winter)
2,4-Dimethylphenol (UG/L)	2	29	3.7 J	M039-A	26 Apr 2006	25.0 J	M039-A	2005 01 (Spring)
Di-n-Butyl Phthalate (UG/L)	4	29	3.4 J	M020-E	01 Sep 2005	--	NA	NA
2-Methylnaphthalene (UG/L)	3	29	9.1 J	M039-A	06 Sep 2005	20.0	M039-A	2004 02 (Summer)
3-Nitroaniline (UG/L)	2	29	3.4 J	M039-A	26 Apr 2006	--	NA	NA
Nitrobenzene (UG/L)	1	29	0.79 J	M022-A	01 Sep 2005	--	NA	NA
n-Nitrosodiphenylamine (UG/L)	4	29	3.6 J	M024-A	06 Sep 2005	6.4 J	M024-A	2003 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (Second Water-Bearing Zone)								
Semivolatile Organic Compounds								
Benzo(a)pyrene (UG/L)	1	13	1.1 J	M016-B	31 Aug 2005	--	NA	NA
Benzo(b)fluoranthene (UG/L)	1	13	0.75 J	M016-B	31 Aug 2005	0.25	M038-B	2002 04 (Winter)
Benzo(g,h,i)perylene (UG/L)	1	13	8.6 J	M016-B	31 Aug 2005	0.27	M038-B	2002 04 (Winter)
Dibenz(a,h)anthracene (UG/L)	1	13	5.9 J	M016-B	31 Aug 2005	0.37	M038-B	2002 04 (Winter)
Indeno(1,2,3-c,d)pyrene (UG/L)	1	13	6.9 J	M016-B	31 Aug 2005	0.21	M038-B	2002 04 (Winter)
bis(2-Ethylhexyl)phthalate (UG/L)	1	13	2.1 J	M023-B	06 Sep 2005	14.0	M020-B	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	6	29	22.0	M039-A	26 Apr 2006	30.0 J	M024-A	2004 04 (Winter)
Acenaphthylene (UG/L)	3	29	3.4	M024-A	24 Apr 2006	14.0	M039-A	2003 04 (Winter)
Anthracene (UG/L)	5	29	0.58	M037-A	06 Sep 2005	0.89	M037-A	2003 02 (Summer)
Benzo(a)anthracene (UG/L)	4	29	0.020 J	M037-A	25 Apr 2006	0.15	M037-A	2002 04 (Winter)
Benzo(a)pyrene (UG/L)	1	29	0.090 J	M038-A	16 Sep 2005	0.12 J	M036-A	2003 01 (Spring)
Benzo(b)fluoranthene (UG/L)	2	29	0.020 J	M039-A	26 Apr 2006	0.18 J	M037-A	2003 01 (Spring)
Chrysene (UG/L)	2	29	0.040 J	M039-A	26 Apr 2006	0.14	M037-A	2002 04 (Winter)
Fluoranthene (UG/L)	11	29	1.2	M037-A	06 Sep 2005	1.9	M037-A	2003 04 (Winter)
Fluorene (UG/L)	5	29	7.8	M039-A	26 Apr 2006	9.2	M039-A	2005 01 (Spring)
Naphthalene (UG/L)	7	30	190	M039-A	06 Sep 2005	290	M039-A	2004 01 (Spring)
Phenanthrene (UG/L)	9	29	1.8	M039-A	26 Apr 2006	4.5	M039-A	2005 01 (Spring)
Pyrene (UG/L)	11	29	0.52 J	M037-A	06 Sep 2005	1.1	M037-A	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						*Historical Data (Summer 2002 - Spring 2005)*		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	29	29	20.0	M023-A	07 Sep 2005	67.1	M023-A	2004 01 (Spring)
Arsenic (UG/L)	25	29	53.0	M018-E	20 Apr 2006	58.3 J	M023-E	2003 03 (Fall)
Barium (UG/L)	29	29	1700	M038-E	25 Apr 2006	1920	M038-E	2003 02 (Summer)
Beryllium (UG/L)	11	29	0.72 J	M018-E	20 Apr 2006	1.5 J	M021-E	2002 02 (Summer)
Cadmium (UG/L)	3	29	1.0 J	M018-A	02 Sep 2005	8.6	M020-A	2003 02 (Summer)
Chromium (UG/L)	28	29	13.0	M024-A	06 Sep 2005	23.0	M016-E	2002 02 (Summer)
Cobalt (UG/L)	29	29	22.0	M022-E	01 Sep 2005	43.7 J	M020-E	2003 04 (Winter)
Copper (UG/L)	26	29	18.0	M020-A	20 Apr 2006	31.0	M019-A	2005 01 (Spring)
Lead (UG/L)	6	29	3.6	M023-A	07 Sep 2005	1.6	M018-E	2004 02 (Summer)
Manganese (UG/L)	29	29	16000	M018-E	20 Apr 2006	15000	M018-E	2004 02 (Summer)
Mercury (UG/L)	7	29	0.31	M022-E	24 Apr 2006	0.32 J	442-MW1	2004 01 (Spring)
Molybdenum (UG/L)	26	29	20.0 J	M019-A	01 Sep 2005	49.8 J	M019-A	2004 01 (Spring)
Nickel (UG/L)	29	29	25.0	M024-A	06 Sep 2005	40.0	M022-E	2002 04 (Winter)
Selenium (UG/L)	28	29	180	M037-E	06 Sep 2005	110 J	M018-E	2002 02 (Summer)
Silver (UG/L)	11	29	3.7 J	M018-E	20 Apr 2006	5.0 J	M018-A	2002 04 (Winter)
Thallium (UG/L)	15	29	15.0	M023-E	24 Apr 2006	10.0	M018-A	2005 01 (Spring)
Vanadium (UG/L)	27	29	33.0	M020-A	20 Apr 2006	52.0	M013-A	2003 01 (Spring)
Zinc (UG/L)	25	29	88.0	M023-A	07 Sep 2005	310 J	M039-A	2002 04 (Winter)
Aluminum (UG/L)	10	29	940 J	M023-A	07 Sep 2005	1100	M018-E	2002 02 (Summer)
Iron (UG/L)	29	29	41000	M020-E	24 Apr 2006	170000	M037-E	2004 04 (Winter)
Calcium (MG/L)	29	29	730 J	M018-E	20 Apr 2006	360000	M023-A	2004 04 (Winter)
Magnesium (MG/L)	29	29	1800 J	M018-E	20 Apr 2006	1000000	M021-E	2004 04 (Winter)
Potassium (MG/L)	29	29	370	M018-E	01 Sep 2005	250000	M021-A	2004 04 (Winter)
Sodium (MG/L)	29	29	12000 J	M018-E	20 Apr 2006	8400000	M021-E	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	10	13	0.43 J	M037-B	07 Sep 2005	10.8 J	M013-C	2003 02 (Summer)
Arsenic (UG/L)	12	13	13.0	M039-B	26 Apr 2006	15.0	M014-B	2002 04 (Winter)
Barium (UG/L)	13	13	830	M037-B	24 Apr 2006	930	M037-B	2003 02 (Summer)
Beryllium (UG/L)	12	13	0.80 J	M016-B	20 Apr 2006	--	NA	NA
Cadmium (UG/L)	5	13	2.1 J	M016-B	20 Apr 2006	6.2	M038-B	2004 02 (Summer)
Chromium (UG/L)	12	13	10.0	M023-C	07 Sep 2005	12.0	M023-B	2002 02 (Summer)
Cobalt (UG/L)	13	13	16.0	M016-B	31 Aug 2005	29.9 J	M039-B	2003 02 (Summer)
Copper (UG/L)	13	13	5.4 J	M039-B	06 Sep 2005	31.0	M014-B	2002 04 (Winter)
Lead (UG/L)	5	13	0.57 J	M014-B	31 Aug 2005	0.56 J	M016-B	2004 02 (Summer)
Manganese (UG/L)	13	13	19000	M016-B	20 Apr 2006	19000	M016-B	2002 04 (Winter)
Molybdenum (UG/L)	12	13	7.1 J	M010-B	31 Aug 2005	36.3 J	M016-B	2003 04 (Winter)
Nickel (UG/L)	13	13	21.0	M016-B	31 Aug 2005	24.0	M012-B	2004 02 (Summer)
Selenium (UG/L)	13	13	110	M039-B	06 Sep 2005	57.0	M012-B	2002 04 (Winter)
Silver (UG/L)	12	13	7.7	M038-B	25 Apr 2006	20.1 J	M039-B	2003 02 (Summer)
Thallium (UG/L)	8	13	3.5 J	M037-B	24 Apr 2006	0.66 J	M021-C	2002 04 (Winter)
Vanadium (UG/L)	12	13	7.3 J	M012-B	31 Aug 2005	9.7 J	M036-B	2002 02 (Summer)
Zinc (UG/L)	12	13	120	M039-B	06 Sep 2005	23.0	M038-B	2004 04 (Winter)
Aluminum (UG/L)	8	13	32.0 J	M021-C	01 Sep 2005	420	M020-B	2002 02 (Summer)
Iron (UG/L)	13	13	9900	M036-B	02 Sep 2005	12100	M036-B	2003 02 (Summer)
Calcium (MG/L)	13	13	1100	M038-B	25 Apr 2006	140000	M021-C	2004 04 (Winter)
Magnesium (MG/L)	13	13	1600	M039-B	26 Apr 2006	380000	M023-B	2004 04 (Winter)
Potassium (MG/L)	13	13	190	M038-B	25 Apr 2006	120000	M023-B	2004 04 (Winter)
Sodium (MG/L)	13	13	8700	M012-B	19 Apr 2006	2200000	M023-C	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Polychlorinated Biphenyls								
Aroclor 1260 (UG/L)	1	20	0.15 J	M021-A	01 Sep 2005	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						*Historical Data (Summer 2002 - Spring 2005)*		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Organochlorine Pesticides								
Aldrin (UG/L)	1	20	0.040 J	M021-A	01 Sep 2005	0.030 J	M039-A	2004 04 (Winter)
alpha-BHC (UG/L)	3	20	0.020 J	M024-A	24 Apr 2006	0.032 J	M024-A	2004 01 (Spring)
beta-BHC (UG/L)	3	20	0.10 J	M037-A	25 Apr 2006	0.25 J	M039-A	2004 01 (Spring)
delta-BHC (UG/L)	5	20	0.040 J	M039-A	26 Apr 2006	0.12	M036-A	2004 01 (Spring)
gamma-BHC (UG/L)	4	20	0.020 J	M023-A	25 Apr 2006	0.020 J	M037-A	2004 04 (Winter)
alpha-Chlordane (UG/L)	5	20	0.030 J	M039-A	26 Apr 2006	0.040 J	M039-A	2004 02 (Summer)
gamma-Chlordane (UG/L)	3	20	0.010 J	M037-A	06 Sep 2005	0.091	M038-A	2004 01 (Spring)
4,4'-DDD (UG/L)	4	20	0.050 J	M037-A	25 Apr 2006	0.23 J	M037-A	2004 01 (Spring)
4,4'-DDE (UG/L)	4	20	0.030 J	M039-A	26 Apr 2006	0.030 J	M038-A	2004 02 (Summer)
4,4'-DDT (UG/L)	7	20	0.030 J	M018-A	20 Apr 2006	0.060 J	M038-A	2004 02 (Summer)
Dieldrin (UG/L)	2	20	4.7	M018-A	20 Apr 2006	8.5	M018-A	2004 01 (Spring)
Endosulfan I (UG/L)	6	20	0.050 J	M037-A	25 Apr 2006	0.36	M039-A	2004 01 (Spring)
Endosulfan II (UG/L)	3	20	0.020 J	M039-A	26 Apr 2006	0.030 J	M037-A	2004 04 (Winter)
Endrin (UG/L)	1	20	0.020 J	M024-A	24 Apr 2006	0.22 J	M039-A	2004 01 (Spring)
Endrin aldehyde (UG/L)	3	20	0.020 J	M039-A	26 Apr 2006	0.080 J	M018-A	2004 01 (Spring)
Endrin ketone (UG/L)	4	20	0.040 J	M011-A	31 Aug 2005	0.033 J	M018-A	2004 01 (Spring)
Heptachlor (UG/L)	3	20	0.010 J	M024-A	06 Sep 2005	0.090 J	M038-A	2005 01 (Spring)
Heptachlor epoxide (UG/L)	5	20	0.030 J	M018-A	20 Apr 2006	0.20	M039-A	2004 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Radionuclides								
Alpha (900.0) (PCI/L)	2	29	138 J	M019-E	01 Sep 2005	18.6	M037-E	2002 03 (Fall)
Beta (900.0) (PCI/L)	28	29	431	M018-E	01 Sep 2005	3430	M018-E	2002 02 (Summer)
Potassium 40 (901.1) (PCI/L)	13	18	307	M018-E	20 Apr 2006	1220	M023-A	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	22	29	20.9 J	M039-A	06 Sep 2005	10.3	M022-E	2004 01 (Spring)
Ra-228 (904.0) (PCI/L)	14	29	27.8	M022-E	24 Apr 2006	14.8	M022-E	2003 02 (Summer)
Strontium (Sr) Total (905.0) (PCI/L)	2	18	1.4 J	M016-E	20 Apr 2006	4.1	M011-A	2003 02 (Summer)
Tritium (906.0) (PCI/L)	3	29	3620	M016-E	20 Apr 2006	3810	M016-E	2004 01 (Spring)
Uranium 233/234 (908.0) (PCI/L)	10	18	3.0	M017-A	20 Apr 2006	2.2	M022-E	2004 01 (Spring)
Uranium 235/236 (U02RC) (PCI/L)	2	18	0.19 J	M022-E	24 Apr 2006	--	NA	NA
Uranium 238 (908.0) (PCI/L)	9	18	2.4	M017-A	20 Apr 2006	2.5	M022-E	2004 01 (Spring)
Uranium Total (U02RC) (PERCENT)	2	18	1.6	M013-A	19 Apr 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (Second Water-Bearing Zone)								
Radionuclides								
Alpha (900.0) (PCI/L)	1	13	55.2 J	M016-B	31 Aug 2005	52.0 J	M039-B	2004 04 (Winter)
Beta (900.0) (PCI/L)	12	13	263	M038-B	25 Apr 2006	527 J	M013-C	2003 02 (Summer)
Potassium 40 (901.1) (PCI/L)	10	13	173	M010-B	20 Apr 2006	623	M020-B	2003 02 (Summer)
Ra-226 (903.0) (PCI/L)	13	13	1.9 J	M037-B	07 Sep 2005	2.7	M013-C	2003 02 (Summer)
Ra-228 (904.0) (PCI/L)	8	13	5.1	M038-B	02 Sep 2005	5.9	M039-B	2004 04 (Winter)
Strontium (Sr) Total (905.0) (PCI/L)	1	13	5.3	M010-B	20 Apr 2006	--	NA	NA
Tritium (906.0) (PCI/L)	2	13	499 J	M021-C	24 Apr 2006	--	NA	NA
Uranium 233/234 (908.0) (PCI/L)	6	13	11.5	M016-B	20 Apr 2006	11.5	M016-B	2003 04 (Winter)
Uranium 235/236 (U02RC) (PCI/L)	5	13	0.92	M039-B	26 Apr 2006	--	NA	NA
Uranium 238 (908.0) (PCI/L)	6	13	9.3	M016-B	20 Apr 2006	8.5	M016-B	2003 04 (Winter)
Uranium Total (U02RC) (PERCENT)	5	13	2.2	M039-B	26 Apr 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	11	11	2300	M038-E	06 Sep 2005	2500	M038-A	2004 04 (Winter)
Sulfide (MG/L)	3	11	0.20	M039-A	26 Apr 2006	3.1	M036-A	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	11	11	2300	M038-E	06 Sep 2005	2500	M038-A	2004 04 (Winter)
Total Dissolved Solids (MG/L)	10	10	28200	M038-E	06 Sep 2005	29000	M038-E	2004 04 (Winter)
Chloride (MG/L)	11	11	16000	M038-E	06 Sep 2005	18000	M037-E	2002 02 (Summer)
Sulfate (as SO4) (MG/L)	9	11	460	M016-A	31 Aug 2005	1800	M016-A	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

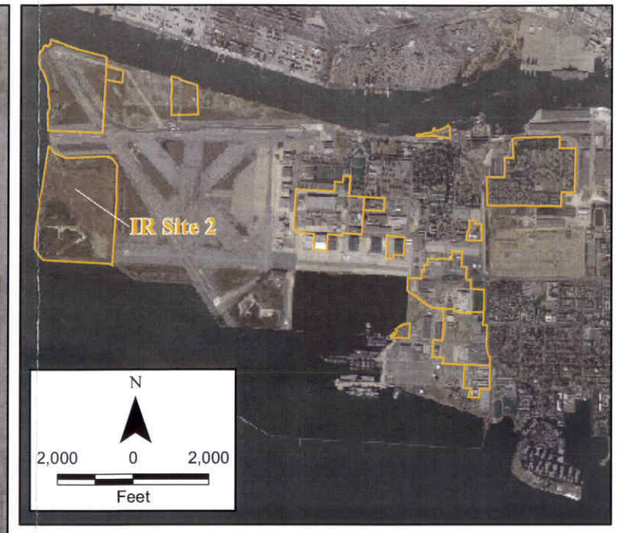
Table 4-13

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 2

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 2 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	2100	M036-B	02 Sep 2005	2100	M036-B	2002 04 (Winter)
Sulfide (MG/L)	1	7	0.050	M010-B	20 Apr 2006	0.040	M016-B	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	7	7	2100	M036-B	02 Sep 2005	2100	M036-B	2002 04 (Winter)
Total Dissolved Solids (MG/L)	7	7	48300000	M016-B	31 Aug 2005	28600	M039-B	2004 04 (Winter)
Total Dissolved Solids (UG/L)	7	7	48300000	M016-B	31 Aug 2005	28600	M039-B	2004 04 (Winter)
Chloride (MG/L)	7	7	15000	M016-B	31 Aug 2005	20500	M016-B	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	5	7	2200	M016-B	31 Aug 2005	2270	M016-B	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility

N

400 0 400

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004 National Geospatial-Intelligence Agency (NGA)

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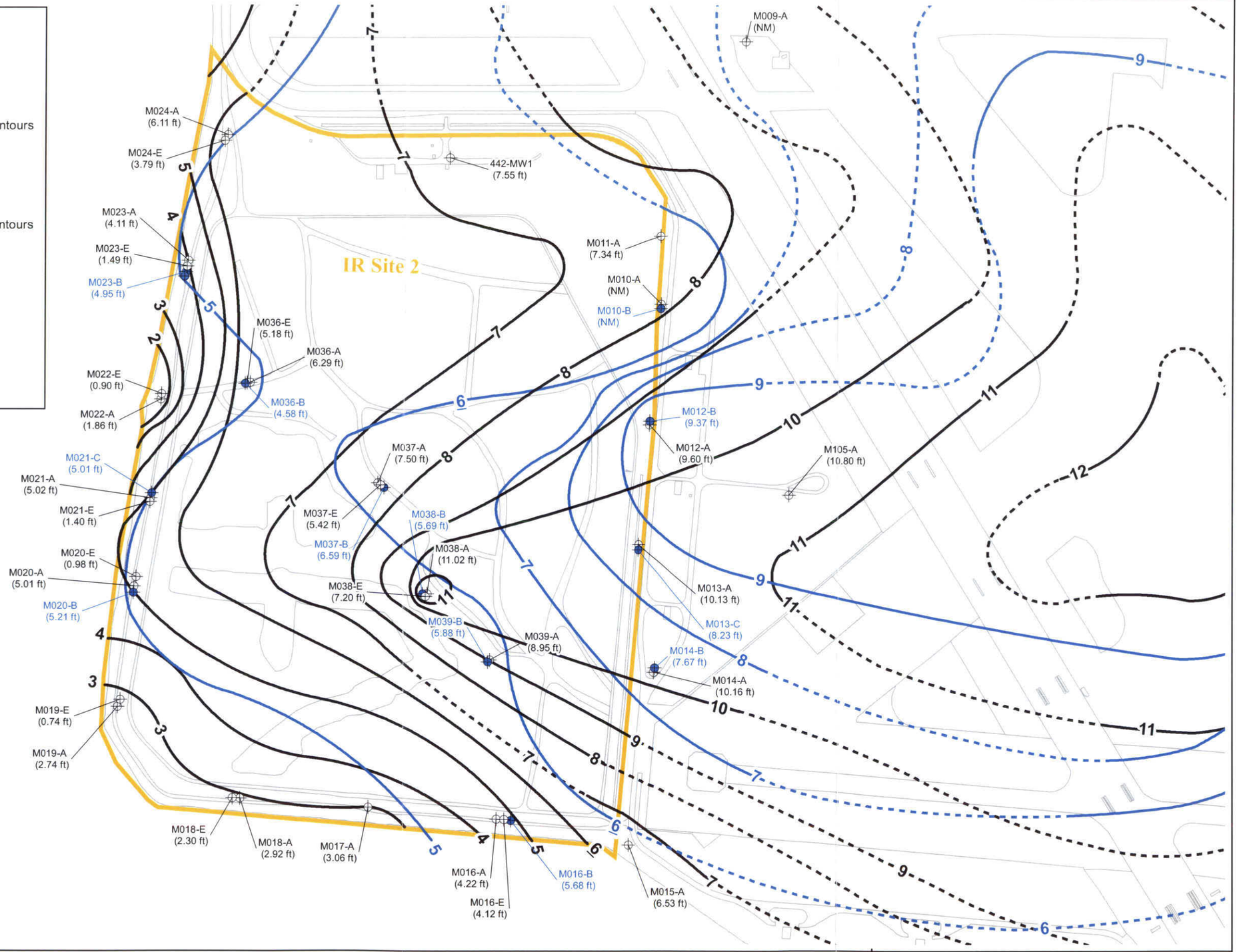
FIGURE 4-1
IR SITE 2
SITE AND WELL LOCATION MAP

Legend

- FWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- Hachures indicate Closed Depression in Groundwater Contours
- SWBZ Groundwater Elevation Contour (feet above msl)
- Dashed where Inferred
- Hachures indicate Closed Depression in Groundwater Contours
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility Infrastructure

"A" well used for contouring at locations where both "A" and "E" wells exist



N

400 0 400

Feet

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FIGURE 4-2
IR SITE 2
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

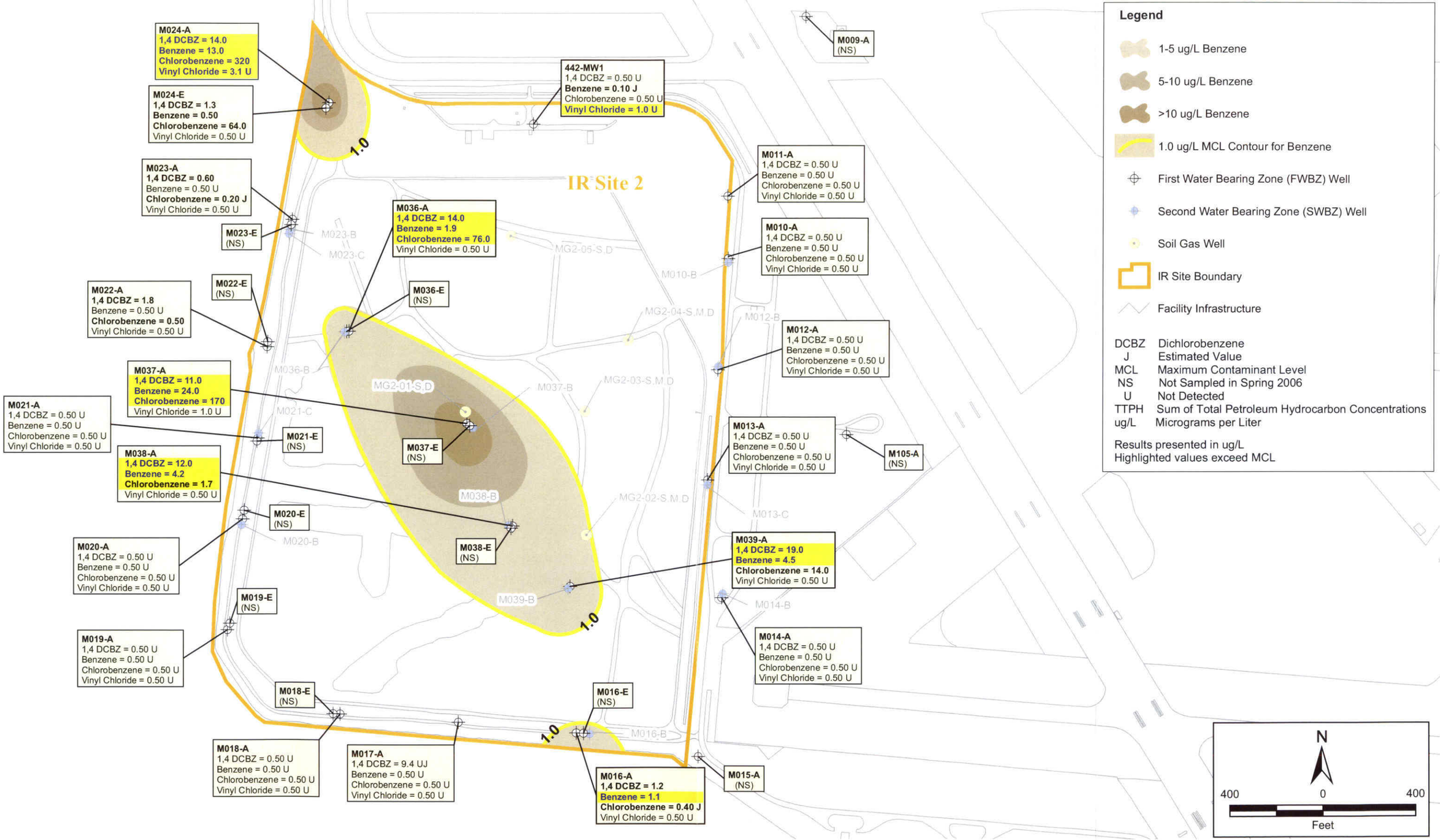

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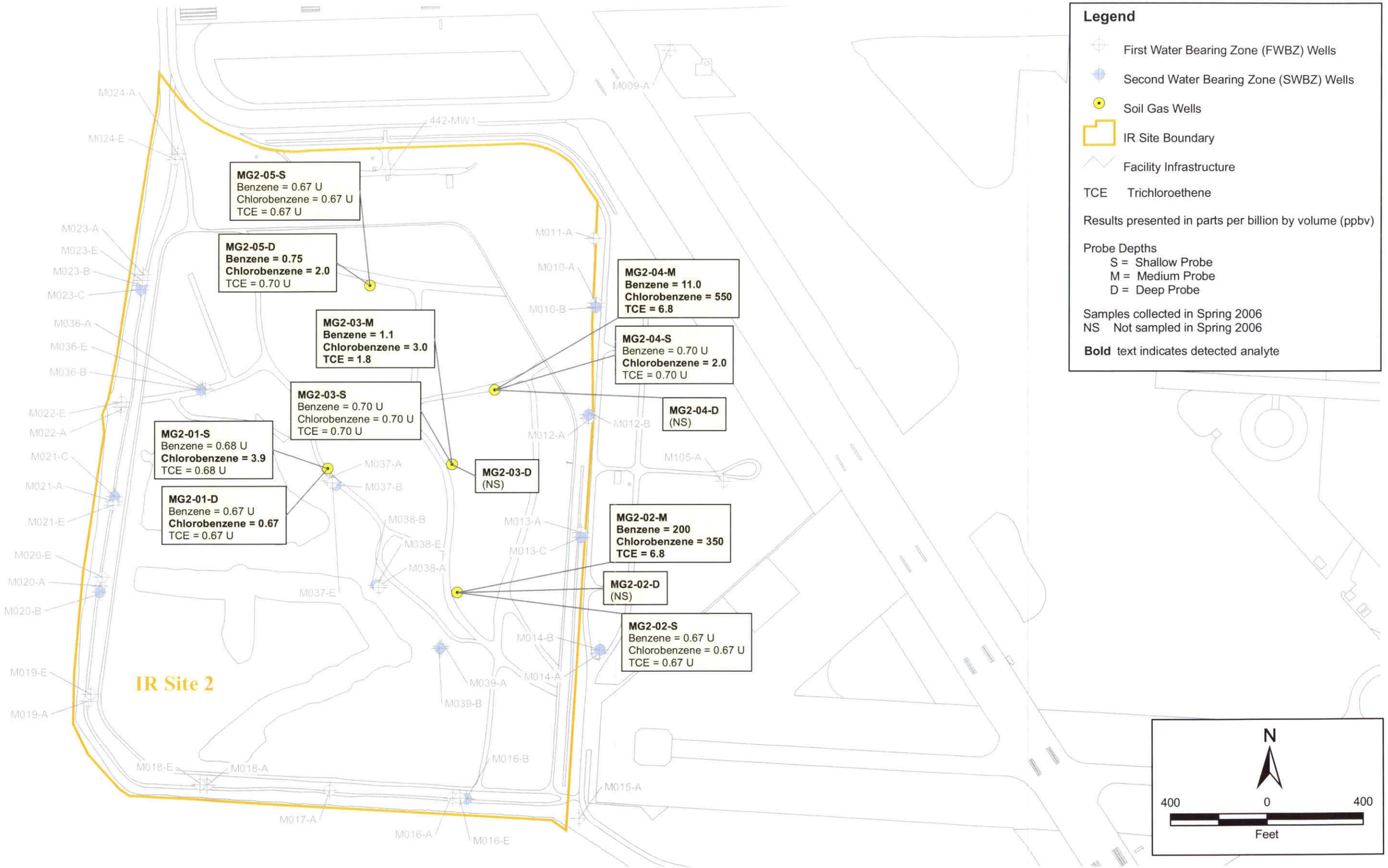
FIGURE 4-3
IR SITE 2
GROUNDWATER DISTRIBUTION OF SELECTED
VOLATILE ORGANIC HYDROCARBONS IN FWBZ WELLS
SPRING 2006



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2 Soil Gas Spr 06.mxd

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FIGURE 4-4
IR SITE 2
SELECTED SOIL GAS ANALYTICAL DETECTIONS
SPRING 2006

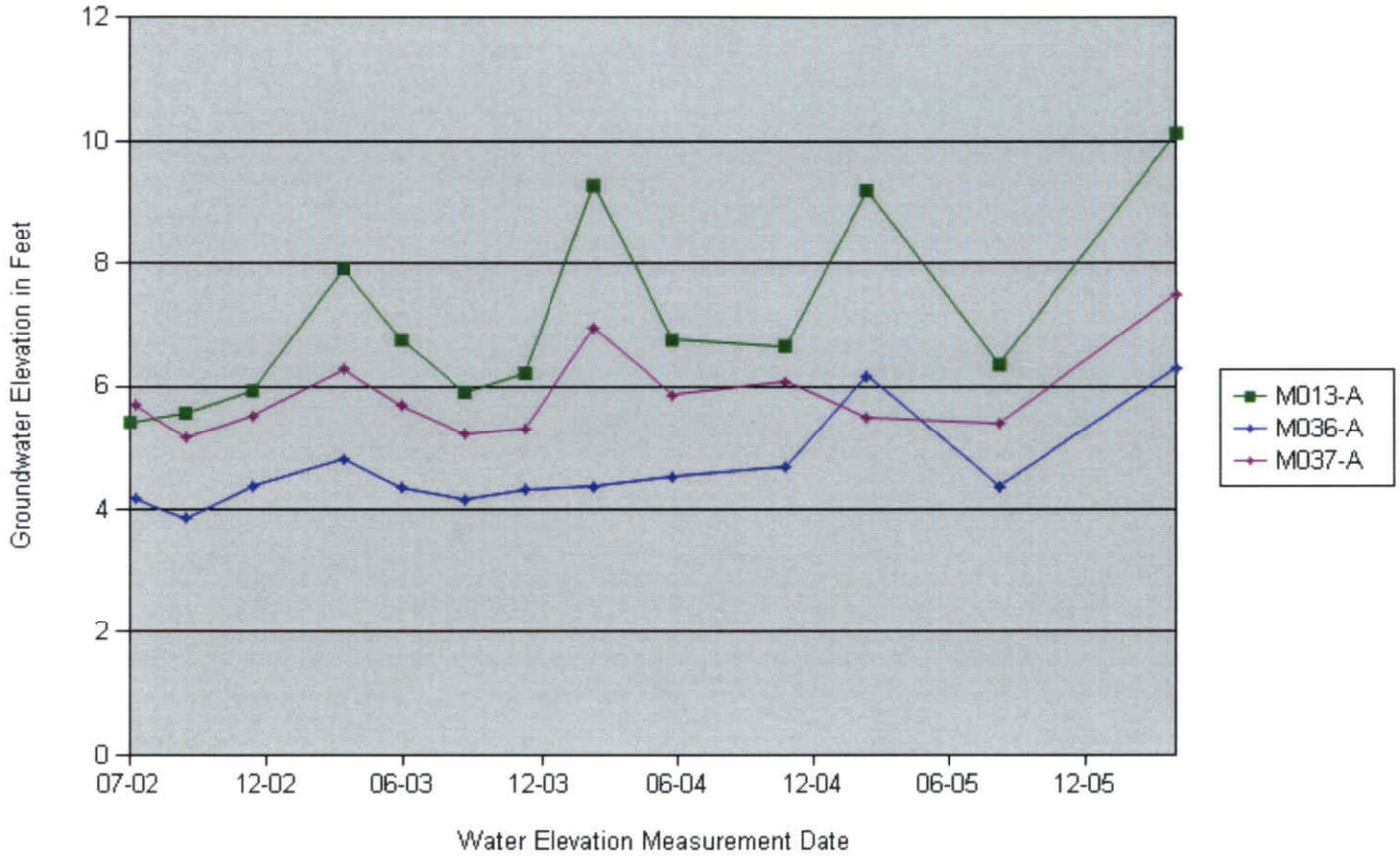

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FIGURE 4-5a
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 2:
EAST-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2006

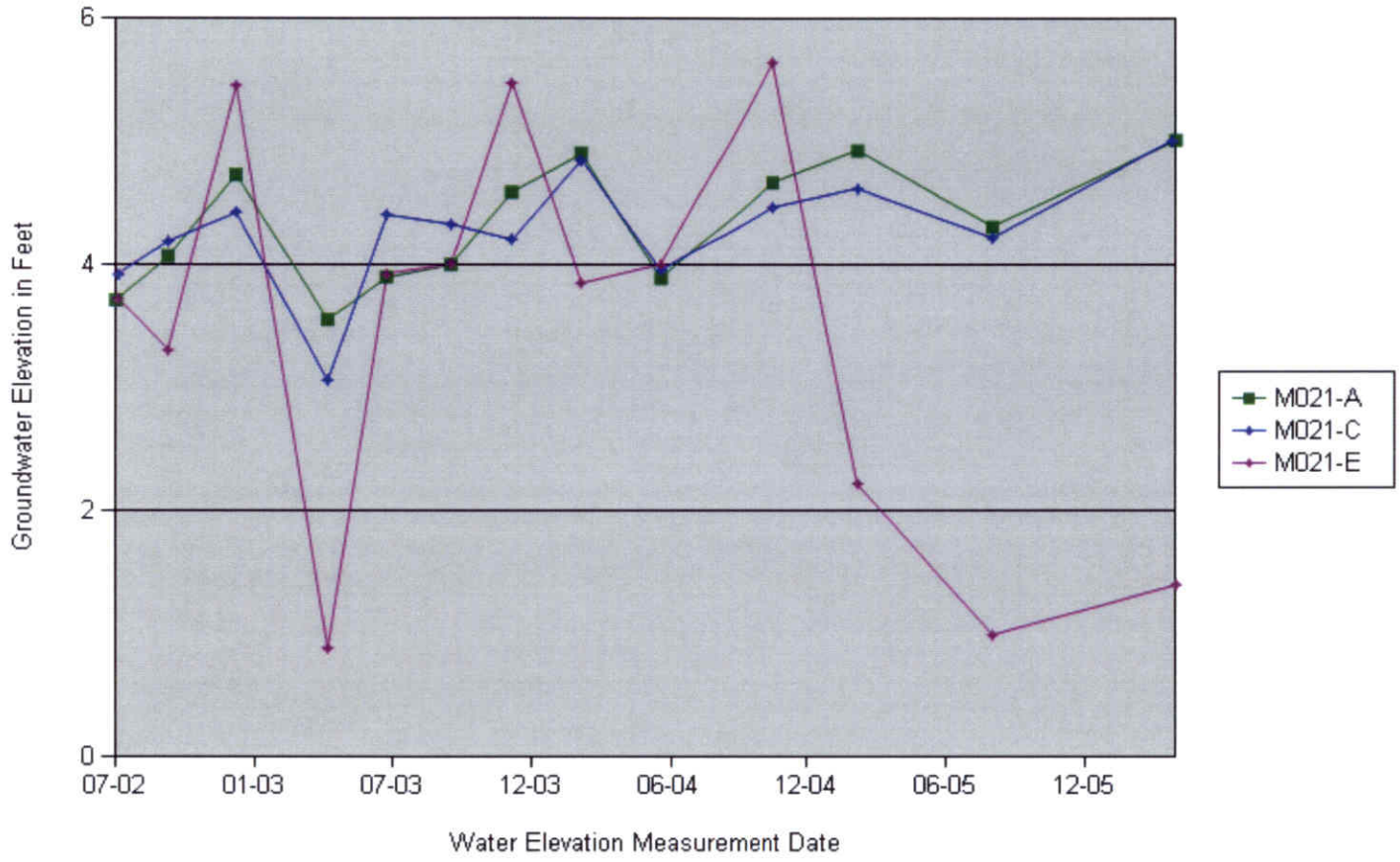

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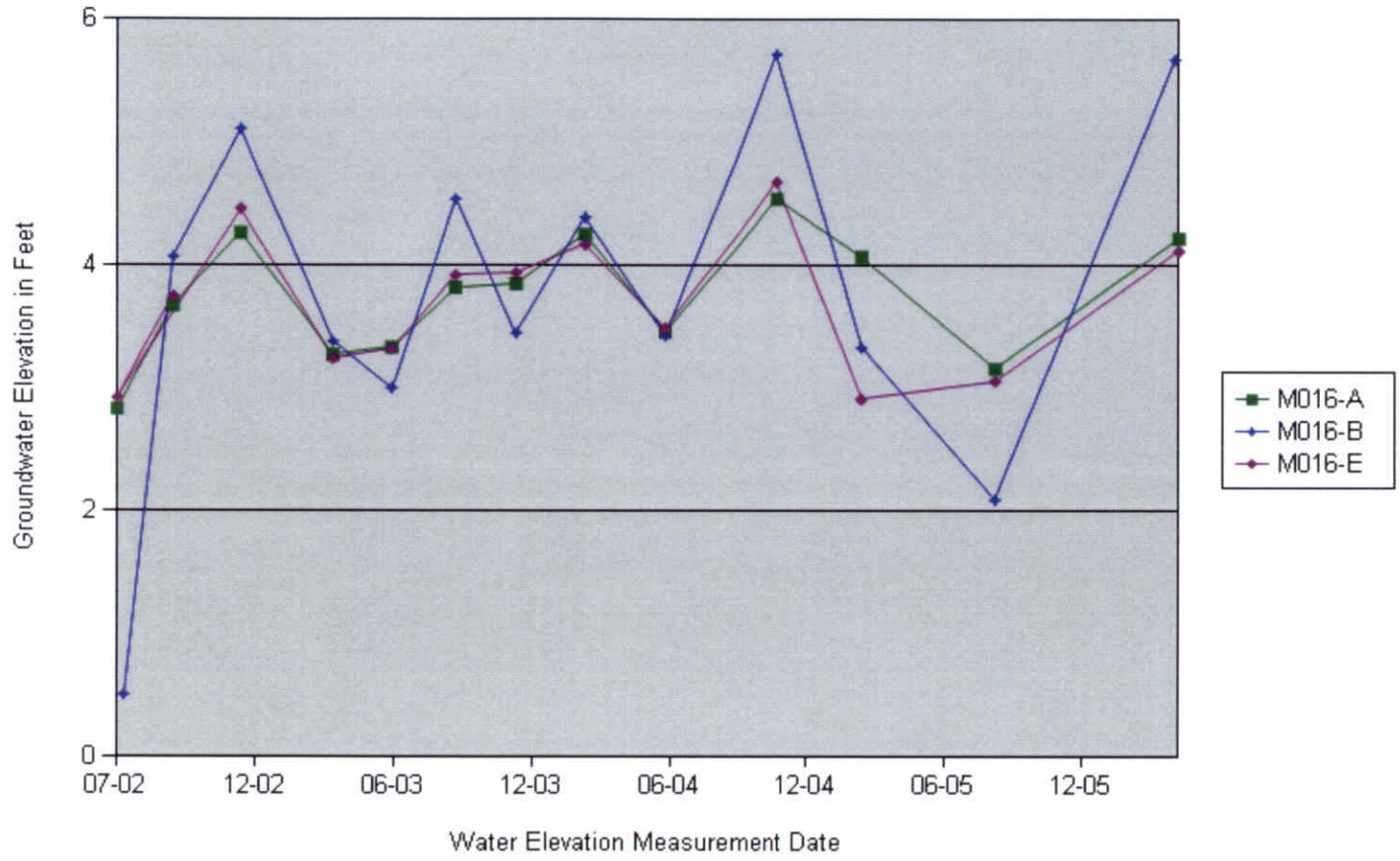
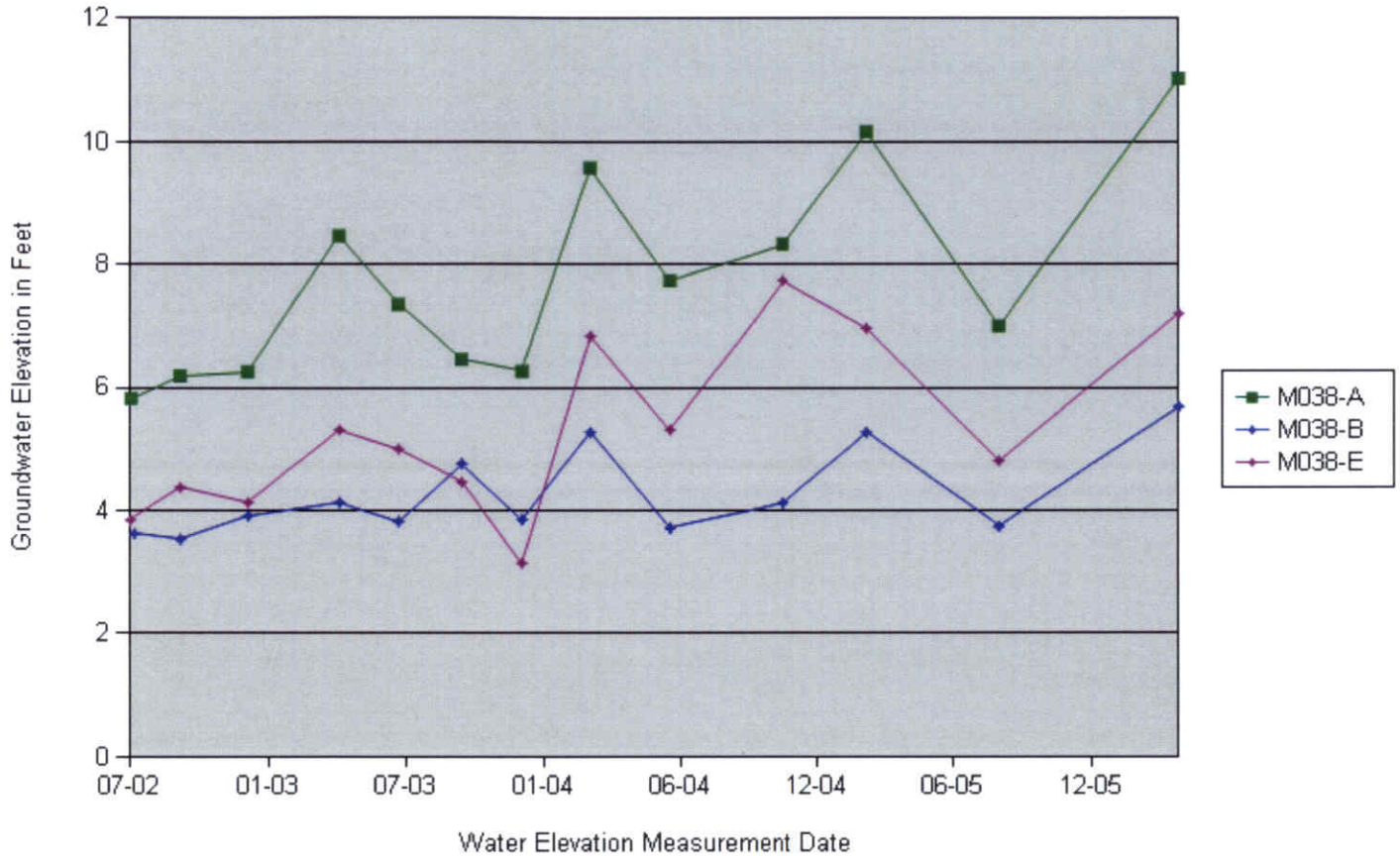
FIGURE 4-5b
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 2:
CLUSTERED WELLS WITHIN ZONE OF TIDAL INFLUENCE ON WEST
SHORLINE SITE PERIMETER, SUMMER 2002 THROUGH SPRING 2006



ITSI Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 4-5c** TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 2: CLUSTERED WELLS WITHIN ZONE OF TIDAL INFLUENCE ON SOUTH SHORLINE SITE PERIMETER, SUMMER 2002 THROUGH SPRING 2006



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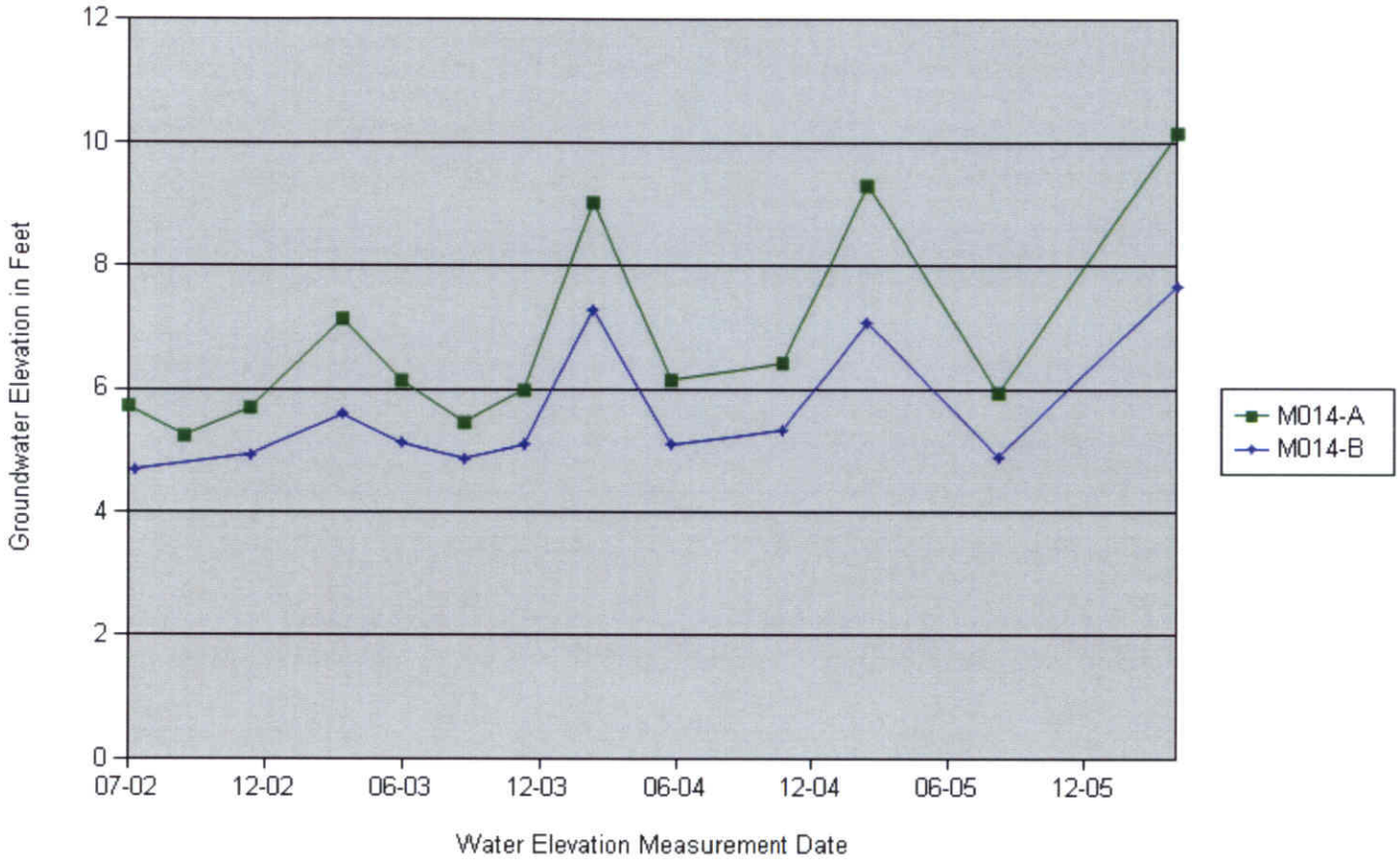

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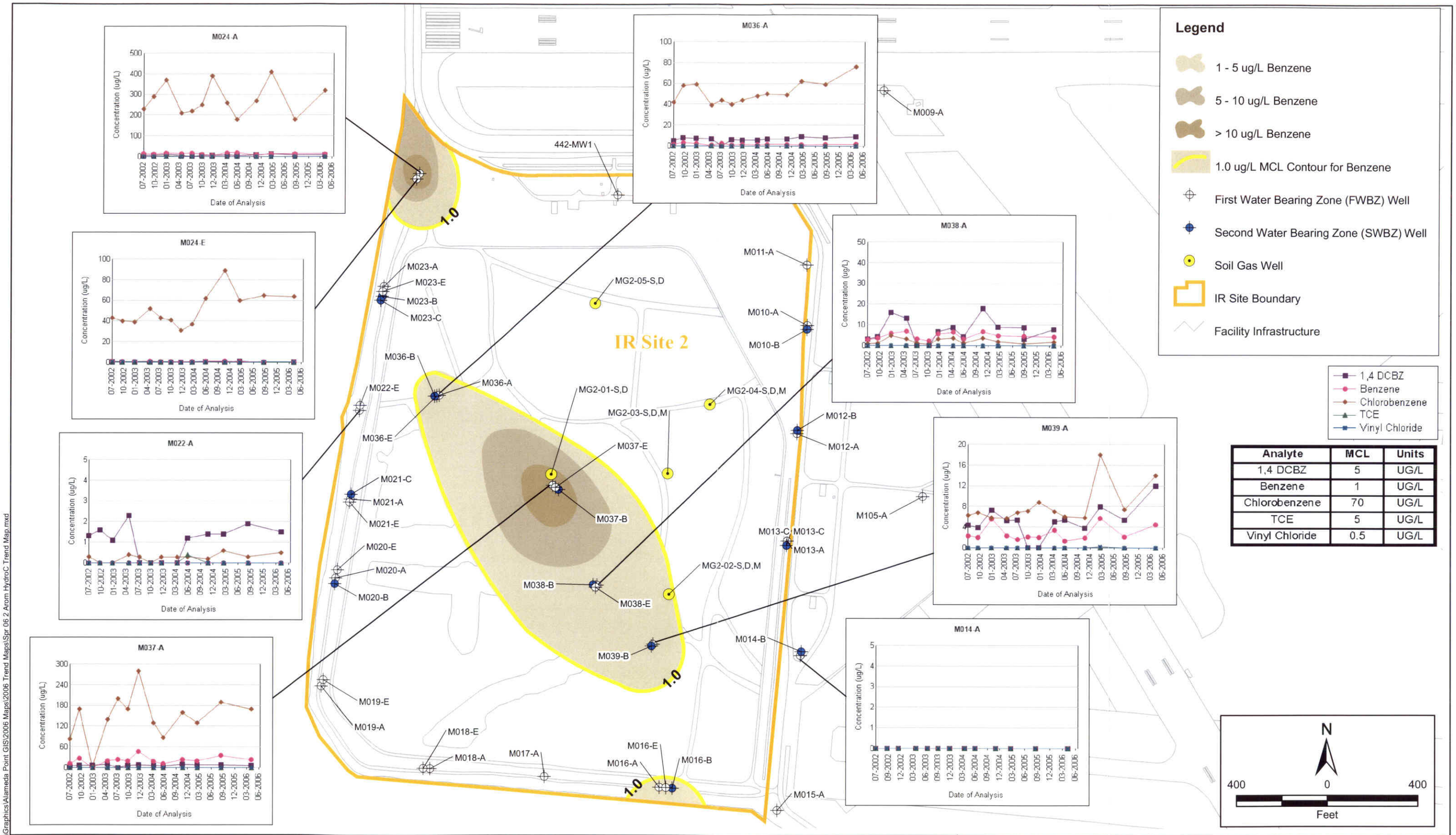

Analyte	MCL	Units
1,4 DCBZ	5	UG/L
Benzene	1	UG/L
Chlorobenzene	70	UG/L
TCE	5	UG/L
Vinyl Chloride	0.5	UG/L

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FIGURE 4-6
IR SITE 2
GROUNDWATER CONCENTRATIONS OF VOLATILE ORGANIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

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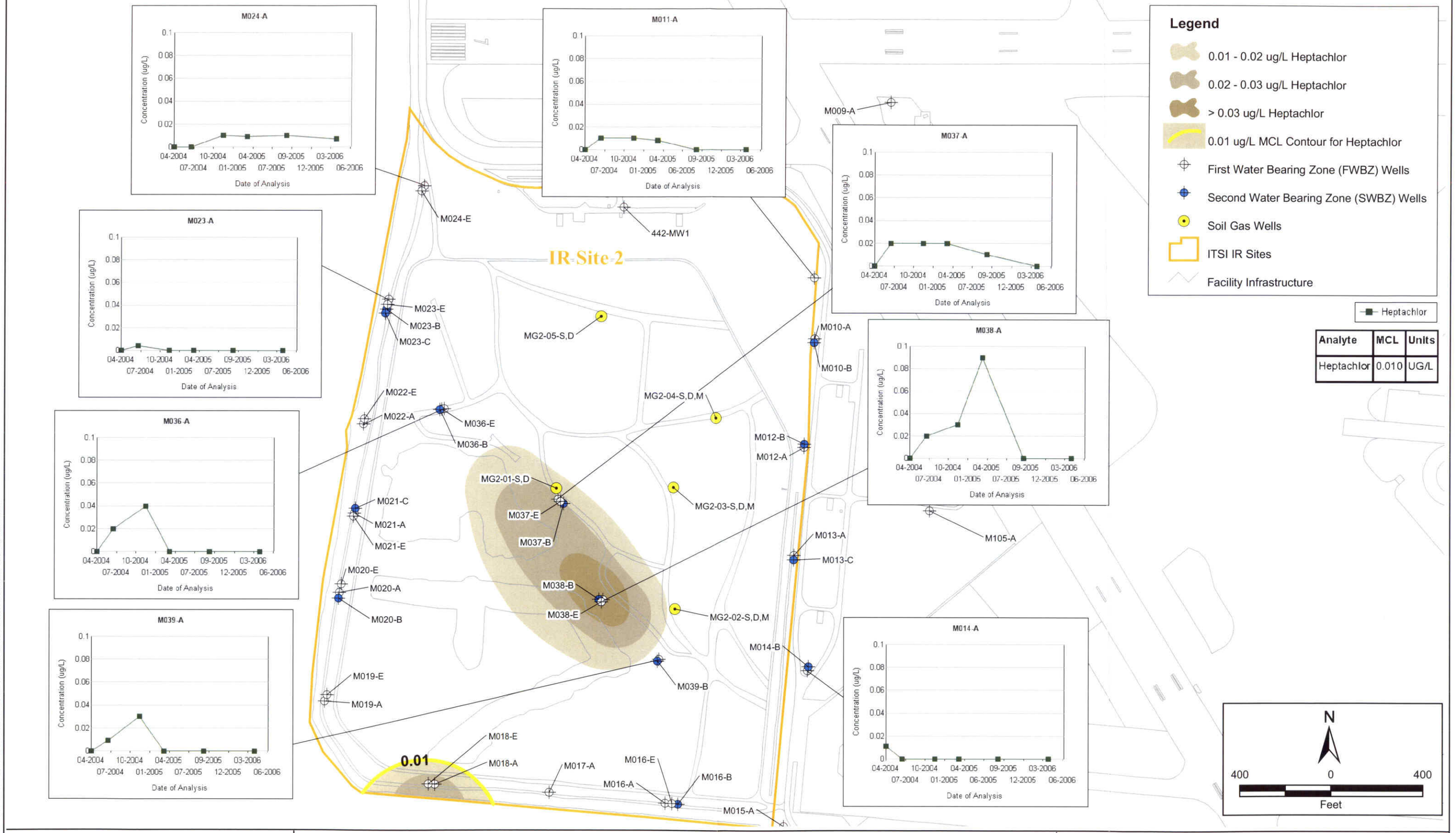

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 2006 2 OrganoPest Trend Map.mxd

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FIGURE 4-7
IR SITE 2
GROUNDWATER CONCENTRATIONS OF HEPTACHLOR
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

5.0 INSTALLATION RESTORATION SITE 3 GROUP

The IR Site 3 Group is located in the Southeastern Industrial Area of Alameda Point (Figure 1-2) and includes IR Sites 3, 4, 11, 21, and the surrounding areas. The IR sites included in the group share common hydrogeologic conditions and similar contaminants of potential concern (COPCs). Seaplane Lagoon borders the Group to the west, and a residential community (the City of Alameda) is located directly east. Historically, this area overlies what was once the western margin of the Island of Alameda. Land use at these sites has been industrial. IR Site 3, also known as Area 97, is a former Fuel Storage Area; IR Site 4, Building 360, was an Aircraft Engine Facility and Plating Shop; IR Site 11, Building 14, was an Engine Test Cell; and IR Site 21, Building 162, was used for Ship Fitting and Engine Repair. The Draft Operable Unit (OU) -2 RI Report (TtEMI, 1999b) provides additional information about the nature and distribution of contaminants at the site.

IR Site 3 contained four partially buried concrete tanks (97-A, 97-B, 97-C, and 97-D) and one partially buried steel tank (97-E). Each tank had a nominal capacity of 100,000 gallons and contained 115/145 aviation gasoline (AVGAS) (Ecology & Environment, Inc. [E&E], 1983). The four concrete tanks were installed in 1943, and the steel tank was added in 1962. In 1986, the AVGAS tanks were drained, cleaned, broken down to below grade, and buried in place. From the 1960s until 1978, as much as 365,000 gallons of AVGAS may have leaked (TtEMI, 2001a). In 1978, gasoline vapors were discovered in sewers and utility ducts. Tank 97-A and its fuel line to the north were also known to have leaked.

The predominant feature at IR Site 4 is Building 360, a former aircraft engine repair facility that contained specialized production shops. Former plating shop operations within Building 360 included: paint stripping by blasting; chrome, silver, and nickel stripping; etching; and chrome, silver, nickel, and copper plating. Building 372, formerly used as an engine test facility, is located west of Building 360. A jet fuel spill occurred in Test Cells 13 and 14 at the southwestern corner of Building 372. Building 163, also located west of Building 360, was used for aircraft maintenance in the late 1940s. The building contained machine shops, welding

shops, and chemical storage areas. This building was originally part of historic Pacific Coast Borax Works.

IR Site 11 is located on approximately 5.3 acres on the southwestern corner of the Ingersoll Avenue and Viking Street intersection. The site consists primarily of Building 14, which contained 12 engine test cells. The building was constructed in the 1940s, and served as the primary site at Alameda Point for aircraft engine repair and testing. Area 37, located immediately south of IR Site 11, was a major petroleum storage and distribution point. The area contained underground storage tanks (USTs) that were removed between 1995 and 1998.

IR Site 21 is located on the southwestern corner of the intersection of Atlantic Avenue and Viking Street. Building 162, a Ship Fitting and Engine Repair shop was used for performing maintenance of aircraft and ship components; activities included cleaning, repairing, assembling and testing. Building 398, located at the northern portion of IR Site 21, contained aircraft engine test cells, an auxiliary power unit shop, and a cooling air-turbine shop; operations in this building included solvent cleaning, degreasing, abrasive blasting, and connecting/disconnecting engines.

Chemicals of potential concern at the IR Site 3 Group are segregated into two geographic areas, with the petroleum contaminants dominating IR Site 3 and chlorinated solvents of primary concern at IR Sites 4, 11, and 21. Previous VOC concentrations near the 1 percent solubility limit suggest the presence of dense non-aqueous phase liquid (DNAPL); however, preliminary results from the design data collection have not confirmed the presence of DNAPL.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 3 Group included sampling and analysis of 43 groundwater monitoring wells (35 FWBZ wells and 8 SWBZ wells). Another 12 FWBZ groundwater monitoring wells are used for quarterly groundwater-level measurements only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 5-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 5-1.

5.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 42 FWBZ and 8 SWBZ groundwater monitoring wells during the current sampling year (including the Summer 2004, Fall/Winter 2004, and Spring 2005 sampling events) at IR Site 3 Group; monitoring well locations are shown on Figure 5-1. The results are presented along with previously collected water-level data in Table 5-2. Figure 5-2 provides a visual representation of the potentiometric surface for both the FWBZ and SWBZ based on the groundwater elevations.

5.2 ANALYTICAL PARAMETERS

Groundwater monitoring wells at IR Site 3 Group collected during the current sampling year were analyzed for the following parameters:

- TPH by EPA Method 8015B and VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 5-1 lists the groundwater monitoring wells that are active in the current Basewide Monitoring Program and the analytical requirements for each well.

5.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year along with previously obtained analytical results are summarized in the following tables:

- Table 5-3, "Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 5-4, "Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 5-5, "Groundwater Sampling Field Parameters at IR Site 3 Group, Summer 2002 through Spring 2006"
- Table 5-6, "Groundwater Sample Analytical Results at IR Site 3 Group: Natural Attenuation Parameters, Summer 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal MCLs and, where applicable, to National AWQCs promulgated by the federal EPA. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

5.4 DISCUSSION OF RESULTS

Groundwater samples collected during the current sampling year indicate that TPH has been consistently detected in groundwater in many of the site wells. Although no MCLs exist for TPH compounds, the maximum value for the sum of the TPH fractions during the Spring 2006 sampling event was 44,130 µg/L in M03-04 with TPH characterized as diesel and jet fuel being the primary components (Table 5-3). This same well and several others have exhibited MCL exceedances of **benzene** during the current year and during historical sampling events. One well also consistently exhibited **1,4-DCBZ** concentrations exceeding the MCL. Benzene and 1,4-DCBZ were the only aromatic hydrocarbons exceeding an MCL during the current sampling year. Aromatic hydrocarbons were detected infrequently in the SWBZ at concentrations less than MCLs.

Concentrations of various chlorinated hydrocarbons have been consistently detected in groundwater samples collected from several groundwater monitoring wells screened in the FWBZ at IR Site 3 Group. The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **PCE, TCE, 1,1-DCE, cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), 1,1-DCA, 1,2-DCA** and **vinyl chloride**. Only one SWBZ well had a concentration of chlorinated hydrocarbons above MCLs during the current sampling year. **Vinyl chloride** was detected

during the Summer 2005 sampling event at 7.5 µg/L in D03-02. This is the first detection of vinyl chloride in any of the SWBZ wells (Table 5-3).

Dissolved metals detected in excess of MCLs during the current sampling year include **arsenic, cadmium, lead, nickel, and thallium** in the FWBZ wells and **arsenic, cadmium, chromium, nickel, and thallium** in the SWBZ wells.

Among metals, most MCL exceedances in IR Site 3 Group wells do not appear to signify contaminant plumes, because the exceedances have not been consistent through time. Exceptions are arsenic, nickel, and lead at one or more wells each. However, arsenic has consistently exceeded its MCL of 10 µg/L at six FWBZ monitoring wells. Concentrations at two of these wells are only slightly above background (15 µg/L or less) and may not represent contamination. The other four wells (M03-04, M03-06, M03-10, and M03-14) have had arsenic concentrations ranging from 20 to 133 µg/L, but contaminant plumes are limited to fairly small areas near these wells; downgradient migration is not apparent. Nickel and lead values have consistently exceeded MCLs at two wells each. The nickel exceedances are isolated spatially and do not form a defineable plume. The lead exceedances occur in two wells adjacent to the Seaplane Lagoon (OU2B-MW01 and OU2B-MW02), and appear to form a small plume.

5.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 5-2. Groundwater flow direction in the FWBZ at IR Site 3 Group is highly variable and generally ranges from north to west, at an average gradient of approximately 0.003 feet per foot. Groundwater flow direction in the SWBZ at IR Site 3 Group is generally to the north, at a gradient of approximately 0.003 feet per foot. Water levels in SWBZ wells at IR Site 3 Group are generally 0.5 to 2 feet lower than nearby FWBZ wells, indicating an overall downward vertical gradient.

The groundwater FWBZ potentiometric surface in the center of IR Site 3 exhibits mounding in the center of a large traffic circle, likely due to extensive landscape watering in this area. A small depression occurs in the vicinity of well M03-14; the reason for this low area is unclear. In addition, a fairly sharp drop-off in water elevation occurs at the edge of the Seaplane Lagoon.

5.4.2 Groundwater Contaminant Distribution

Chlorinated and aromatic hydrocarbons are present in groundwater at IR Site 3 Group at concentrations exceeding the MCLs. The distribution of selected chlorinated and selected aromatic hydrocarbons is shown on Figures 5-3 and 5-4.

TCE was chosen as an indicator compound for Figure 5-3 to represent the distribution of chlorinated VOCs in groundwater detected at concentrations exceeding MCLs. The highest concentrations of chlorinated VOCs are generally found in the vicinity of well M03-15 in the western portion of IR Site 3; this well is screened in the FWBZ in the upper part of the Merritt sand. A second plume with lesser concentrations is found in the eastern portion of IR Site 3 in the vicinity of MW360-1; this well is screened in the FWBZ in shallow artificial fill material and in the upper part of the Merritt sand.

Benzene was chosen as an indicator compound for Figure 5-4 to represent the distribution of aromatic VOCs in groundwater detected at concentrations exceeding MCLs. The highest concentrations of benzene are generally found in the vicinity of well M03-04 in the northern portion of IR Site 3 and appear to be unrelated to the distribution of chlorinated VOCs. Well M03-04 is screened in the FWBZ in the shallow artificial fill material and the upper part of the BSU. Benzene was also detected in scattered locations in several other FWBZ wells.

5.4.3 Comparison of Current Analytical Results with Historical Data

A comprehensive summary of the groundwater sampling analytical results for the current sampling year is provided in Table 5-7, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. In addition, Table 5-7 also lists the historical maximum concentration for each analyte. Concentrations exceeding MCLs are highlighted in yellow.

In general, many of the analytes detected and exceeding MCLs during the Summer 2005 through Spring 2006 sampling year were similar to previous sampling years (Table 5-7), with the following exceptions:

- Methyl tertiary-butyl ether (MTBE) and methylene chloride in the FWBZ, and antimony, selenium, and aluminum in the SWBZ, exceeded the MCL during historical sampling, but not during the current sampling year
- PCE in the FWBZ, and vinyl chloride, cadmium, chromium, and nickel in the SWBZ, exceeded the MCL during the current sampling year, but not during historical sampling events.

5.4.4 Trends in Groundwater Elevation Data

For IR Site 3 Group, three hydrographs have been prepared for the Spring 2006 Annual Report, as follows:

- Figure 5-5a, "Trends in Groundwater Elevations at IR Site 3 Group: Northwest-Southeast Oriented FWBZ Wells"
- Figure 5-5b, "Trends in Groundwater Elevations at IR Site 3 Group: SWBZ Well D04-01 and Co-Located FWBZ Well MW360-3"
- Figure 5-5c, "Trends in Groundwater Elevations at IR Site 3 Group: SWBZ Well D11-01 and Co-Located FWBZ Well M11-04"

The following observations can be made from viewing the hydrographs:

1. Groundwater elevations at IR Site 3 Group show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. Although the degree of seasonal fluctuation varies, a similar pattern is apparent even for widely spaced monitoring wells (Figure 5-5a).
2. An overall increase in groundwater elevations over time is apparent; i.e. peak seasonal elevations for most wells have shown a tendency to increase every year since 2002. These changes are likely due to an overall increase in precipitation during the measurement interval.
3. Hydrographs for clustered wells shown on Figures 5-5b and 5-5c indicate a downward vertical gradient between co-located FWBZ and SWBZ wells that is mostly consistent over time; i.e. groundwater elevations for the FWBZ wells are usually higher than the corresponding SWBZ wells. An exception to the general downward gradient existed for co-located wells D11-01 and M11-04 during Fall and Winter 2003; elevations were approximately equal for these measurement events with no evidence of a vertical gradient between the two wells at that time.

A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is absent.

5.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at IR Site 3 Group since monitoring was initiated at the site in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 5-6 and 5-7.

The groundwater concentrations of chlorinated and aromatic hydrocarbons show significant up and down fluctuations. These fluctuations may be related to the influence of seasonal fluctuations in groundwater elevations. The overall trends of the time-series plots indicate a general decrease in concentrations over time for most analytes with the exception of TCE in wells M03-16 and MW360-1. Wells defining the plume boundaries consistently show low to non-detect concentrations of organic constituents, and the same constituents tend to show up in the same set of wells from one sampling event to another. Three distinct TCE plumes are evident at IR Site 3 (Figure 5-6). The plume boundaries appear to be stable and the distribution of wells adequately capture the plume boundaries for chlorinated hydrocarbons.

The benzene plume shown in Figure 5-7 indicates decreasing concentrations over time at its center of mass at well M03-04. However, the northern end of the plume is not sufficiently characterized along the 1 µg/L MCL boundary for benzene.

5.5 CONCLUSIONS AND RECOMMENDATIONS

As discussed in the previous sub-sections, IR Site 3 Group contaminants of concern include several chlorinated hydrocarbons and benzene, as presented in the plume diagrams on Figures 5-3 and 5-4. Trends over time shown on Figures 5-6 and 5-7 suggest that the concentrations of these contaminants have been decreasing over time during the monitoring program. Some additional wells are recommended at the northern of the benzene plume north-northeast of M03-04.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 5-1
Groundwater Monitoring Summary, IR Site 3 Group Summer 2005 and Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds			Inorganic Compounds	Natural Attenuation Parameters					
				TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)
Groundwater Monitoring Program Wells													
First	37-MJ-MW1	Fill-BSU	4.2 - 12	X	X	X	X	X	X	X	X	X	X
	372-MW1	Fill	2.5 - 12.5	X	X	X	X	X	X	X	X	X	X
	398-MW4	Fill	2.9 - 12.9	X	X	X	X	X	X	X	X	X	X
	M03-04	Fill-BSU	3 - 11	X	X	X	X		X				X
	M03-05	Fill-BSU	3 - 13	X	X	X	X	X	X	X	X	X	X
	M03-06	Fill-Upper Merritt	3 - 12	X	X	X	X	X	X	X	X	X	X
	M03-07	BSU-Upper Merritt	3 - 13	X	X	X	X		X				
	M03-09	Upper Merritt	21 - 33	X	X	X	X						
	M03-10	Upper Merritt	28 - 38	X	X	X	X						
	M03-11	Upper Merritt	26 - 36	X	X	X	X						
	M03-12	Upper Merritt	26 - 36	X	X	X	X						
	M03-13	Upper Merritt	26.5 - 36.5	X	X	X	X						
	M03-14	Upper Merritt	27 - 36.5			X							
	M03-15	Upper Merritt	26 - 35.5			X	X						
	M03-16	Upper Merritt	24.5 - 34			X	X						
	M03-17	Upper Merritt	24 - 33.5			X							
	M04-05	Fill-Upper Merritt	3.5 - 13.5	X	X	X	X	X	X	X	X	X	X
	M04-06	Fill-Upper Merritt	3.5 - 13.5	X	X	X	X		X				X
	M07B-01	Fill-BSU	4 - 11	X	X	X	X		X			X	X

Table 5-1
Groundwater Monitoring Summary, IR Site 3 Group Summer 2005 and Spring 2006

				Organic Compounds			Inorganic Compounds	Natural Attenuation Parameters					
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)
First	M11-01	Fill-BSU	4 - 9.5	X	X	X	X	X	X	X	X	X	X
	M11-04	Fill-BSU	5 - 12	X	X	X	X		X				X
	M11-05	Fill-BSU-Upper Merritt	4 - 14	X	X	X	X	X	X	X	X	X	X
	M11-06	Fill-BSU-Upper Merritt	4 - 14	X	X	X	X		X				X
	MBG-3	Fill-Merritt	5 - 15	X	X	X	X	X	X	X	X	X	X
	MW360-1	Fill-Upper Merritt	5 - 15	X	X	X	X		X				X
	MW360-2	Fill-Upper Merritt	5 - 15	X	X	X	X	X	X	X	X	X	X
	MW360-3	Fill-Upper Merritt	5 - 15	X	X	X	X		X				X
	MW360-4	Fill-Upper Merritt	5 - 15	X	X	X	X		X				X
	MW97-3	Fill-BSU-Upper Merritt	5 - 15	X	X	X	X		X				X
	OU2B-MW01	Fill-Upper Merritt	7 - 12	X	X	X	X	X	X	X	X	X	X
	OU2B-MW02	Fill-Upper Merritt	7 - 12	X	X	X	X		X				X
	OU2B-MW03	Fill-Upper Merritt	7 - 12	X	X	X	X		X				X
	OU2B-MW04	Fill-Upper Merritt	7 - 12	X	X	X	X		X				X
	OU2B-MW05	Fill-Upper Merritt	7 - 12	X	X	X	X	X	X	X	X	X	X
	WA-8	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X	X
Second	D03-01	Merritt	49.5 - 59.5	X	X	X	X		X				X
	D03-02	Lower Merritt	46.5 - 56.5			X	X						
	D03-03	Lower Merritt	48 - 58			X	X						
	D03-04	Lower Merritt	47 - 57			X	X						
	D04-01	USA	86 - 96	X	X	X	X	X	X	X	X	X	X
	D04-02	USA	86.5 - 96.5	X	X	X	X	X	X	X	X	X	X
	D04-03	USA	84 - 94	X	X	X	X		X				X
	D11-01	Merritt	50 - 60	X	X	X	X	X	X	X	X	X	X

Table 5-1
Groundwater Monitoring Summary, IR Site 3 Group Summer 2005 and Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds			Inorganic Compounds	Natural Attenuation Parameters					
				TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	TDS (EPA Method 160.1)
Non-Program Wells, Water Level Only													
First	37-MJ-MW-5	Fill-BSU	4.2 - 12	-	-	-	-	-	-	-	-	-	-
	398-MW2	Fill	2.5 - 12.5	-	-	-	-	-	-	-	-	-	-
	398-MW3	Fill	2.9 - 12.9	-	-	-	-	-	-	-	-	-	-
	M03-08A	Fill-BSU	3 - 11	-	-	-	-	-	-	-	-	-	-
	M04-07	Fill-BSU	3 - 13	-	-	-	-	-	-	-	-	-	-
	M11-02	Fill-Upper Merritt	3 - 12	-	-	-	-	-	-	-	-	-	-
	MW547-1	BSU-Upper Merritt	3 - 13	-	-	-	-	-	-	-	-	-	-
	MW547-2	Upper Merritt	21 - 33	-	-	-	-	-	-	-	-	-	-
	MW97-1	Upper Merritt	28 - 38	-	-	-	-	-	-	-	-	-	-
	MW97-2	Upper Merritt	26 - 36	-	-	-	-	-	-	-	-	-	-
	MWD13-1	Upper Merritt	26 - 36	-	-	-	-	-	-	-	-	-	-
	MWD13-2	Upper Merritt	26.5 -36.5	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event

Well sampled for this parameter at the Spring 2006 sampling event

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill

BSU - Bay Sediment Unit

USA - Upper San Antonio Formation

Merritt - Merritt Sand

FT. BGS - Feet below ground surface

TPH - Total Petroleum Hydrocarbons

VOCs - Volatile Organic Compounds

(8260B) - U.S. Environmental Protection Agency analytical method

TDS - Total Dissolved Solids

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	37-MJ-MW-5 ‡	11.1	10.70	04/10/06	3.06	7.64
		11.1	10.70	08/23/05	5.57	5.13
		11.1	10.70	03/02/05	2.37	8.33
		11.1	10.70	11/08/04	5.29	5.41
		11.1	10.70	06/15/04	5.57	5.13
		11.1	10.70	03/01/04	2.85	7.85
		11.1	10.70	12/02/03	5.91	4.79
		11.1	10.70	09/15/03	5.88	4.82
		11.1	10.70	06/24/03	5.50	5.20
		11.1	10.70	04/07/03	5.00	5.70
First	37-MJ-MW1	11.4	10.77 *	04/10/06	2.14	8.63
		11.4	10.77 *	08/23/05	5.50	5.27
		11.4	10.77 *	03/02/05	2.40	8.37
		11.4	10.77 *	11/08/04	5.48	5.29
		11.4	10.77 *	06/15/04	6.47	4.30
		11.4	10.77 *	03/01/04	3.16	7.61
		11.4	10.77 *	12/02/03	5.68	5.09
		11.4	10.77 *	09/15/03	5.91	4.86
		11.4	10.77 *	06/24/03	5.46	5.31
		11.4	10.77 *	04/07/03	4.91	5.86
		11.4	10.77 *	12/09/02	5.95	4.82
		11.4	10.77 *	09/03/02	5.92	4.85
		11.4	10.77 *	06/25/02	5.65	5.12
First	372-MW1	12.0	11.80 *	04/10/06	1.57	10.23
		12.0	11.80 *	08/23/05	1.92	9.88
		12.0	11.80 *	03/02/05	1.85	9.95
		12.0	11.80 *	11/08/04	2.08	9.72
		12.0	11.80 *	06/15/04	1.20	10.60
		12.0	11.80 *	03/01/04	1.60	10.20
		12.0	11.80 *	12/02/03	2.00	9.80
		12.0	11.80 *	09/15/03	2.27	9.53
		12.0	11.80 *	06/23/03	2.17	9.63
		12.0	11.80 *	04/07/03	2.15	9.65
		12.0	11.80 *	07/11/02	2.50	9.30
First	398-MW2 ‡	11.7	11.42	04/10/06	4.11	7.31
		11.7	11.42	08/23/05	5.08	6.34
		11.7	11.42	03/02/05	4.21	7.21
		11.7	11.42	11/08/04	5.13	6.29
		11.7	11.42	06/15/04	5.26	6.16
		11.7	11.42	03/01/04	4.42	7.00
		11.7	11.42	12/02/03	4.84	6.58
		11.7	11.42	09/15/03	5.54	5.88
		11.7	11.42	06/24/03	5.11	6.31
		11.7	11.42	04/07/03	5.91	5.51
First	398-MW3 ‡	11.7	11.47	04/10/06	4.03	7.44
		11.7	11.47	08/23/05	5.00	6.47
		11.7	11.47	03/02/05	4.30	7.17
		11.7	11.47	11/08/04	5.19	6.28
		11.7	11.47	06/15/04	5.11	6.36
		11.7	11.47	03/02/04	4.46	7.01
		11.7	11.47	12/02/03	5.24	6.23
		11.7	11.47	09/15/03	5.32	6.15
		11.7	11.47	06/24/03	5.04	6.43

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	398-MW4	11.3	11.14 *	04/10/06	3.76	7.38
		11.3	11.14 *	08/23/05	4.71	6.43
		11.3	11.14 *	03/02/05	4.25	6.89
		11.3	11.14 *	11/08/04	5.13	6.01
		11.3	11.14 *	06/15/04	4.86	6.28
		11.3	11.14 *	03/01/04	4.38	6.76
		11.3	11.14 *	12/02/03	5.30	5.84
		11.3	11.14 *	09/15/03	5.10	6.04
		11.3	11.14 *	06/24/03	4.80	6.34
		11.3	11.14 *	04/07/03	4.71	6.43
		11.3	11.14 *	12/09/02	5.30	5.84
		11.3	11.14 *	09/03/02	5.10	6.04
		11.3	11.14 *	06/20/02	4.86	6.28
First	M03-04	12.4	12.21 *	04/10/06	4.96	7.25
		12.4	12.21 *	08/23/05	5.70	6.51
		12.4	12.21 *	03/02/05	5.61	6.60
		12.4	12.21 *	11/08/04	6.39	5.82
		12.4	12.21 *	06/15/04	5.91	6.30
		12.4	12.21 *	03/01/04	5.60	6.61
		12.4	12.21 *	12/02/03	6.62	5.59
		12.4	12.21 *	09/15/03	6.15	6.06
		12.4	12.21 *	06/24/03	5.81	6.40
		12.4	12.21 *	04/07/03	5.84	6.37
		12.4	12.21 *	12/09/02	6.46	5.75
		12.4	12.21 *	09/03/02	6.10	6.11
		12.4	12.21 *	06/20/02	5.82	6.39
First	M03-05	12.2	11.84 *	04/10/06	4.91	6.93
		12.2	11.84 *	08/23/05	6.21	5.63
		12.2	11.84 *	03/02/05	5.40	6.44
		12.2	11.84 *	11/08/04	6.16	5.68
		12.2	11.84 *	06/15/04	6.27	5.57
		12.2	11.84 *	03/01/04	5.37	6.47
		12.2	11.84 *	12/02/03	6.48	5.36
		12.2	11.84 *	09/15/03	6.51	5.33
		12.2	11.84 *	06/23/03	6.21	5.63
		12.2	11.84 *	04/07/03	6.01	5.83
		12.2	11.84 *	12/09/02	6.46	5.38
		12.2	11.84 *	07/03/02	6.31	5.53
First	M03-06	12.4	12.00 *	04/10/06	4.95	7.05
		12.4	12.00 *	08/23/05	6.25	5.75
		12.4	12.00 *	03/02/05	5.54	6.46
		12.4	12.00 *	11/08/04	6.37	5.63
		12.4	12.00 *	06/15/04	NM	NC

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-06	12.4	12.00 *	03/01/04	5.85	6.15
		12.4	12.00 *	12/02/03	6.40	5.60
		12.4	12.00 *	09/15/03	6.65	5.35
		12.4	12.00 *	06/23/03	6.33	5.67
		12.4	12.00 *	04/07/03	6.21	5.79
		12.4	12.00 *	12/09/02	6.59	5.41
		12.4	12.00 *	09/03/02	6.72	5.28
		12.4	12.00 *	07/03/02	6.55	5.45
First	M03-07	10.9	10.22 *	04/10/06	2.10	8.12
		10.9	10.22 *	08/23/05	3.70	6.52
		10.9	10.22 *	03/02/05	2.96	7.26
		10.9	10.22 *	11/08/04	3.45	6.77
		10.9	10.22 *	06/15/04	3.58	6.64
		10.9	10.22 *	03/01/04	2.42	7.80
		10.9	10.22 *	12/02/03	3.90	6.32
		10.9	10.22 *	09/15/03	3.61	6.61
		10.9	10.22 *	06/23/03	3.55	6.67
		10.9	10.22 *	04/07/03	3.33	6.89
		10.9	10.22 *	12/09/02	4.10	6.12
		10.9	10.22 *	06/20/02	3.70	6.52
First	M03-08A ‡	11.8	11.51 **	04/10/06	4.59	6.92
		11.8	11.51 **	08/23/05	5.56	5.95
		11.8	11.51 **	03/02/05	5.02	6.49
		11.8	11.51 **	11/08/04	5.77	5.74
		11.8	11.51 **	06/15/04	5.85	5.66
		11.8	11.51 **	03/01/04	5.05	6.46
		11.8	11.51 **	12/02/03	5.92	5.59
		11.8	11.51 **	09/15/03	5.95	5.56
		11.8	11.51 **	06/24/03	5.89	5.62
		11.8	11.51 **	04/07/03	5.31	6.20
First	M03-09	12.7	12.21 *	04/10/06	5.52	6.69
		12.7	12.21 *	08/23/05	6.12	6.09
		12.7	12.21 *	03/02/05	5.85	6.36
		12.7	12.21 *	11/08/04	6.38	5.83
		12.7	12.21 *	06/15/04	6.34	5.87
		12.7	12.21 *	03/01/04	5.91	6.30
		12.7	12.21 *	12/02/03	6.79	5.42
		12.7	12.21 *	09/15/03	6.57	5.64
		12.7	12.21 *	06/24/03	6.36	5.85
		12.7	12.21 *	04/07/03	4.87	7.34
		12.7	12.21 *	12/09/02	6.77	5.44
		12.7	12.21 *	09/06/02	6.76	5.45
First	M03-10	12.70	12.23 *	04/10/06	NM	NC
		12.70	12.23 *	08/23/05	5.10	7.13
		12.70	12.23 *	03/02/05	4.07	8.16
		12.70	12.23 *	11/08/04	5.47	6.76
		12.70	12.23 *	06/15/04	5.60	6.63
		12.70	12.23 *	03/01/04	4.25	7.98
		12.70	12.23 *	12/02/03	5.70	6.53

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-10	12.70	12.23 *	09/15/03	5.77	6.46
		12.70	12.23 *	06/23/03	5.38	6.85
		12.70	12.23 *	04/07/03	5.11	7.12
		12.70	12.23 *	12/13/02	7.00	5.23
		12.70	12.23 *	09/06/02	6.31	5.92
First	M03-11	11.74	11.29 *	04/10/06	1.85	9.44
		11.74	11.29 *	08/23/05	3.61	7.68
		11.74	11.29 *	03/02/05	1.60	9.69
		11.74	11.29 *	11/08/04	3.38	7.91
		11.74	11.29 *	06/15/04	3.51	7.78
		11.74	11.29 *	03/01/04	1.83	9.46
		11.74	11.29 *	12/02/03	3.54	7.75
		11.74	11.29 *	09/15/03	3.81	7.48
		11.74	11.29 *	06/23/03	3.27	8.02
		11.74	11.29 *	04/07/03	3.01	8.28
		11.74	11.29 *	12/09/02	3.76	7.53
		11.74	11.29 *	09/09/02	3.98	7.31
First	M03-12	12.21	12.06 *	04/10/06	2.41	9.65
		12.21	12.06 *	08/23/05	3.97	8.09
		12.21	12.06 *	03/02/05	6.77	5.29
		12.21	12.06 *	11/08/04	3.62	8.44
		12.21	12.06 *	06/15/04	3.80	8.26
		12.21	12.06 *	03/02/04	2.02	10.04
		12.21	12.06 *	12/02/03	3.87	8.19
		12.21	12.06 *	09/15/03	4.01	8.05
		12.21	12.06 *	06/23/03	5.15	6.91
		12.21	12.06 *	04/07/03	3.27	8.79
		12.21	12.06 *	12/09/02	4.57	7.49
		12.21	12.06 *	09/09/02	4.53	7.53
First	M03-13	12.90	12.49 *	04/10/06	2.10	10.39
		12.90	12.49 *	08/23/05	4.21	8.28
		12.90	12.49 *	03/02/05	1.68	10.81
		12.90	12.49 *	11/08/04	4.46	8.03
		12.90	12.49 *	06/15/04	4.15	8.34
		12.90	12.49 *	03/02/04	2.37	10.12
		12.90	12.49 *	12/02/03	4.68	7.81
		12.90	12.49 *	09/15/03	4.30	8.19
		12.90	12.49 *	06/23/03	3.63	8.86
		12.90	12.49 *	04/07/03	3.47	9.02
		12.90	12.49 *	12/09/02	4.08	8.41
		12.90	12.49 *	09/09/02	4.72	7.77
First	M03-14	12.30	12.30	04/10/06	6.30	6.00
		12.30	12.30	08/23/05	6.30	6.00
		12.30	12.30	03/02/05	4.62	7.68
		12.30	12.30	11/08/04	6.68	5.62
		12.30	12.30	06/15/04	6.48	5.82
First	M03-15	12.17	12.17	04/10/06	5.53	6.64
		12.17	12.17	08/23/05	6.91	5.26
		12.17	12.17	03/02/05	6.40 §	5.77
		12.17	12.17	11/08/04	7.07	5.10
		12.17	12.17	06/15/04	7.62	4.55

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M03-16	9.31	9.31	04/10/06	4.53	4.78
		9.31	9.31	08/23/05	5.90	3.41
		9.31	9.31	03/02/05	5.50	3.81
		9.31	9.31	11/08/04	5.31	4.00
		9.31	9.31	06/15/04	5.96	3.35
First	M03-17	8.81	8.81	04/10/06	3.87	4.94
		8.81	8.81	08/23/05	4.25	4.56
		8.81	8.81	03/02/05	3.51	5.30
		8.81	8.81	11/08/04	4.45	4.36
		8.81	8.81	06/15/04	5.68	3.13
First	M04-05	13.12	12.74	04/10/06	3.81	8.93
		13.12	12.74	08/23/05	4.95	7.79
		13.12	12.74	03/02/05	4.08	8.66
		13.12	12.74	11/08/04	4.95	7.79
		13.12	12.74	06/15/04	4.98	7.76
First	M04-06	12.85	12.30	04/10/06	1.27	11.03
		12.85	12.30	08/23/05	3.20	9.10
		12.85	12.30	03/02/05	0.60	11.70
		12.85	12.30	11/08/04	3.35	8.95
		12.85	12.30	06/15/04	3.35	8.95
First	M04-07 ‡	11.8	11.81 **	04/10/06	3.69	8.12
		11.8	11.81 **	08/23/05	4.86	6.95
		11.8	11.81 **	03/02/05	3.72	8.09
		11.8	11.81 **	11/08/04	4.92	6.89
		11.8	11.81 **	06/15/04	NM	NC
		11.8	11.81 **	03/01/04	3.78	8.03
		11.8	11.81 **	12/02/03	5.80	6.01
		11.8	11.81 **	09/15/03	5.31	6.50
		11.8	11.81 **	06/23/03	4.81	7.00
		11.8	11.81 **	04/07/03	4.48	7.33
First	M07B-01	11.7	11.12 *	04/10/06	4.01	7.11
		11.7	11.12 *	08/23/05	5.71	5.41
		11.7	11.12 *	03/02/05	4.16	6.96
		11.7	11.12 *	11/08/04	5.35	5.77
		11.7	11.12 *	06/15/04	5.80	5.32
		11.7	11.12 *	03/01/04	4.28	6.84
		11.7	11.12 *	12/02/03	5.09	6.03
		11.7	11.12 *	09/15/03	6.03	5.09
		11.7	11.12 *	06/24/03	5.62	5.50
		11.7	11.12 *	04/07/03	5.24	5.88
		11.7	11.12 *	12/09/02	5.90	5.22
		11.7	11.12 *	09/03/02	6.08	5.04
		11.7	11.12 *	06/20/02	5.82	5.30
First	M11-01	12.4	12.02 *	04/10/06	5.39	6.63
		12.4	12.02 *	08/23/05	6.93	5.09
		12.4	12.02 *	03/02/05	5.73	6.29
		12.4	12.02 *	11/08/04	6.93	5.09
		12.4	12.02 *	06/15/04	7.05	4.97
		12.4	12.02 *	03/01/04	6.03	5.99
		12.4	12.02 *	12/02/03	7.26	4.76
		12.4	12.02 *	09/15/03	7.22	4.80

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M11-01	12.4	12.02 *	06/24/03	6.90	5.12
		12.4	12.02 *	04/07/03	6.66	5.36
		12.4	12.02 *	12/09/02	7.15	4.87
		12.4	12.02 *	09/03/02	7.28	4.74
		12.4	12.02 *	06/21/02	7.11	4.91
First	M11-02 ‡	12.2	11.75 **	04/10/06	4.32	7.43
		12.2	11.75 **	08/23/05	5.92	5.83
		12.2	11.75 **	03/02/05	4.78	6.97
		12.2	11.75 **	11/08/04	6.15	5.60
		12.2	11.75 **	06/15/04	6.00	5.75
		12.2	11.75 **	03/01/04	5.04	6.71
		12.2	11.75 **	12/02/03	6.31	5.44
		12.2	11.75 **	09/15/03	6.38	5.37
		12.2	11.75 **	06/24/03	5.81	5.94
		12.2	11.75 **	04/07/03	5.51	6.24
First	M11-04	11.9	11.83 *	04/10/06	2.89	8.94
		11.9	11.83 *	08/23/05	5.71	6.12
		11.9	11.83 *	03/02/05	2.79	9.04
		11.9	11.83 *	11/08/04	5.58	6.25
		11.9	11.83 *	06/15/04	5.70	6.13
		11.9	11.83 *	03/01/04	3.36	8.47
		11.9	11.83 *	12/02/03	6.06	5.77
		11.9	11.83 *	09/15/03	6.15	5.68
		11.9	11.83 *	06/24/03	5.44	6.39
		11.9	11.83 *	04/07/03	4.95	6.88
		11.9	11.83 *	12/09/02	6.13	5.70
		11.9	11.83 *	09/03/02	6.19	5.64
		11.9	11.83 *	06/20/02	5.70	6.13
First	M11-05	11.2	10.79 *	04/10/06	4.26	6.53
		11.2	10.79 *	08/23/05	5.70	5.09
		11.2	10.79 *	03/02/05	4.49	6.30
		11.2	10.79 *	11/08/04	5.61	5.18
		11.2	10.79 *	06/15/04	5.85	4.94
		11.2	10.79 *	03/01/04	4.40	6.39
		11.2	10.79 *	12/02/03	5.87	4.92
		11.2	10.79 *	09/15/03	5.86	4.93
		11.2	10.79 *	06/24/03	5.77	5.02
		11.2	10.79 *	04/07/03	5.62	5.17
		11.2	10.79 *	12/09/02	5.72	5.07
		11.2	10.79 *	09/03/02	6.00	4.79
		11.2	10.79 *	06/20/02	5.96	4.83
First	M11-06	11.0	10.68 *	04/10/06	4.75	5.93
		11.0	10.68 *	08/23/05	6.00	4.68
		11.0	10.68 *	03/02/05	4.80	5.88
		11.0	10.68 *	11/08/04	5.81	4.87
		11.0	10.68 *	06/15/04	6.25	4.43
		11.0	10.68 *	03/01/04	5.10	5.58
		11.0	10.68 *	12/02/03	6.13	4.55
		11.0	10.68 *	09/15/03	6.07	4.61
		11.0	10.68 *	06/24/03	6.08	4.60
		11.0	10.68 *	04/07/03	5.86	4.82
		11.0	10.68 *	12/09/02	5.92	4.76
		11.0	10.68 *	09/03/02	6.20	4.48
		11.0	10.68 *	06/20/02	6.15	4.53

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWD13-1		12.52	04/10/06	2.82	9.70
First	MWD13-2		12.06	04/10/06	2.16	9.90
First	MBG-3	12.2	11.86 *	04/10/06	2.78	9.08
		12.2	11.86 *	08/23/05	3.99	7.87
		12.2	11.86 *	03/02/05	2.41	9.45
		12.2	11.86 *	11/08/04	3.55	8.31
		12.2	11.86 *	06/15/04	4.29	7.57
		12.2	11.86 *	03/01/04	1.78	10.08
		12.2	11.86 *	12/02/03	3.50	8.36
		12.2	11.86 *	09/15/03	4.40	7.46
		12.2	11.86 *	06/23/03	3.65	8.21
		12.2	11.86 *	04/07/03	3.27	8.59
		12.2	11.86 *	12/09/02	4.16	7.70
		12.2	11.86 *	06/24/02	3.80	8.06
First	MW360-1	11.7	11.27 *	04/10/06	2.70	8.57
		11.7	11.27 *	08/23/05	4.11	7.16
		11.7	11.27 *	03/02/05	2.80	8.47
		11.7	11.27 *	11/08/04	4.85	6.42
		11.7	11.27 *	06/15/04	4.11	7.16
		11.7	11.27 *	03/01/04	3.30	7.97
		11.7	11.27 *	12/02/03	4.63	6.64
		11.7	11.27 *	09/15/03	4.52	6.75
		11.7	11.27 *	06/23/03	3.92	7.35
		11.7	11.27 *	04/07/03	3.74	7.53
		11.7	11.27 *	12/09/02	5.27	6.00
		11.7	11.27 *	09/03/02	4.47	6.80
		11.7	11.27 *	06/19/02	4.11	7.16
First	MW360-2	12.8	12.28 *	04/10/06	3.48	8.80
		12.8	12.28 *	08/23/05	5.15	7.13
		12.8	12.28 *	03/02/05	3.54	8.74
		12.8	12.28 *	11/08/04	2.88	9.40
		12.8	12.28 *	06/15/04	4.87	7.41
		12.8	12.28 *	03/01/04	3.66	8.62
		12.8	12.28 *	12/02/03	4.90	7.38
		12.8	12.28 *	09/15/03	5.25	7.03
		12.8	12.28 *	06/23/03	4.66	7.62
		12.8	12.28 *	04/07/03	4.44	7.84
		12.8	12.28 *	12/09/02	5.20	7.08
		12.8	12.28 *	09/03/02	5.15	7.13
		12.8	12.28 *	06/19/02	4.81	7.47
First	MW360-3	12.8	12.38 *	04/10/06	2.75	9.63
		12.8	12.38 *	08/23/05	4.21	8.17
		12.8	12.38 *	03/02/05	2.81	9.57
		12.8	12.38 *	11/08/04	4.71	7.67
		12.8	12.38 *	06/15/04	4.64	7.74
		12.8	12.38 *	03/01/04	3.15	9.23
		12.8	12.38 *	12/02/03	4.97	7.41
		12.8	12.38 *	09/15/03	4.61	7.77
		12.8	12.38 *	06/23/03	4.25	8.13
		12.8	12.38 *	04/07/03	4.01	8.37
		12.8	12.38 *	12/09/02	5.00	7.38
		12.8	12.38 *	09/03/02	4.93	7.45
		12.8	12.38 *	06/19/02	4.46	7.92

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
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Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW360-4	12.4	12.22 *	04/10/06	2.85	9.37
		12.4	12.22 *	08/23/05	4.13	8.09
		12.4	12.22 *	03/02/05	2.17	10.05
		12.4	12.22 *	11/08/04	4.41	7.81
		12.4	12.22 *	06/15/04	4.88	7.34
		12.4	12.22 *	03/01/04	2.67	9.55
		12.4	12.22 *	12/02/03	4.25	7.97
		12.4	12.22 *	09/15/03	4.40	7.82
		12.4	12.22 *	06/23/03	3.82	8.40
		12.4	12.22 *	04/07/03	3.55	8.67
		12.4	12.22 *	12/09/02	4.43	7.79
		12.4	12.22 *	09/03/02	4.21	8.01
		12.4	12.22 *	06/19/02	3.90	8.32
First	MW547-1 ‡	13.1	12.81 **	04/10/06	2.23	10.58
		13.1	12.81 **	08/23/05	4.46	8.35
		13.1	12.81 **	03/02/05	1.17	11.64
		13.1	12.81 **	11/08/04	4.59	8.22
		13.1	12.81 **	06/15/04	4.24	8.57
		13.1	12.81 **	03/01/04	3.75	9.06
		13.1	12.81 **	12/02/03	4.88	7.93
		13.1	12.81 **	09/15/03	4.46	8.35
		13.1	12.81 **	06/24/03	3.24	9.57
		13.1	12.81 **	04/07/03	2.61	10.20
First	MW547-2 ‡	12.3	12.04 **	08/23/05	2.4	9.64
		12.3	12.04 **	03/02/05	1.55	10.49
		12.3	12.04 **	11/08/04	1.95	10.09
		12.3	12.04 **	06/15/04	3.54	8.50
		12.3	12.04 **	03/01/04	2.88	9.16
		12.3	12.04 **	12/02/03	3.95	8.09
		12.3	12.04 **	09/15/03	3.61	8.43
		12.3	12.04 **	06/24/03	3.31	8.73
		12.3	12.04 **	04/07/03	2.59	9.45
First	MW97-1 ‡	12.0	11.52 **	04/10/06	4.05	7.47
		12.0	11.52 **	08/23/05	4.96	6.56
		12.0	11.52 **	03/02/05	4.67	6.85
		12.0	11.52 **	11/08/04	5.38	6.14
		12.0	11.52 **	06/15/04	5.31	6.21
		12.0	11.52 **	03/02/04	4.80	6.72
		12.0	11.52 **	12/02/03	5.54	5.98
First	MW97-2 ‡	11.1	11.52 **	04/10/06	3.49	8.03
		11.1	11.52 **	08/23/05	4.12	7.40
		11.1	11.52 **	03/02/05	3.46	8.06
		11.1	11.52 **	11/08/04	4.11	7.41
		11.1	11.52 **	06/15/04	4.18	7.34
		11.1	11.52 **	03/01/04	4.41	6.40
		11.1	11.52 **	12/02/03	4.73	6.08
		11.1	11.52 **	09/15/03	4.40	6.41
		11.1	11.52 **	06/23/03	4.15	6.66
		11.1	11.52 **	04/07/03	4.12	6.69
First	MW97-3	12.4	11.99 *	04/10/06	1.35	10.64
		12.4	11.99 *	08/23/05	2.88	9.11
		12.4	11.99 *	03/02/05	0.66	11.33
		12.4	11.99 *	11/08/04	2.86	9.13
		12.4	11.99 *	06/15/04	3.99	8.00
		12.4	11.99 *	03/01/04	1.51	10.48

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW97-3	12.4	11.99 *	12/02/03	4.64	7.35
		12.4	11.99 *	09/15/03	3.35	8.64
		12.4	11.99 *	06/23/03	4.47	7.52
		12.4	11.99 *	04/07/03	4.30	7.69
		12.4	11.99 *	12/09/02	4.36	7.63
		12.4	11.99 *	09/03/02	3.36	8.63
		12.4	11.99 *	07/03/02	4.28	7.71
First	WA-8	11.9	12.85 *	04/10/06	5.68	7.17
		11.9	12.85 *	08/23/05	7.00	5.85
		11.9	12.85 *	03/02/05	6.02	6.83
		11.9	12.85 *	11/08/04	6.79	6.06
		11.9	12.85 *	06/15/04	7.17	5.68
		11.9	12.85 *	03/02/04	6.16	6.69
		11.9	12.85 *	12/02/03	7.43	5.42
		11.9	12.85 *	09/15/03	7.48	5.37
		11.9	12.85 *	06/23/03	7.05	5.80
		11.9	12.85 *	04/07/03	6.59	6.26
		11.9	12.85 *	12/09/02	7.47	5.38
		11.9	12.85 *	09/03/02	7.32	5.53
		11.9	12.85 *	06/20/02	7.11	5.74
Second	D03-01	12.4	12.30 *	04/10/06	5.80	6.50
		12.4	12.30 *	08/23/05	6.58	5.72
		12.4	12.30 *	03/02/05	5.78	6.52
		12.4	12.30 *	11/08/04	6.56	5.74
		12.4	12.30 *	06/15/04	6.96	5.34
		12.4	12.30 *	03/01/04	5.70	6.60
		12.4	12.30 *	12/02/03	6.67	5.63
		12.4	12.30 *	09/15/03	6.74	5.56
		12.4	12.30 *	06/24/03	6.76	5.54
		12.4	12.30 *	04/07/03	6.78	5.52
		12.4	12.30 *	12/09/02	7.03	5.27
		12.4	12.30 *	07/03/02	6.90	5.40
Second	D03-02	11.97	11.97	04/10/06	5.82	6.15
		11.97	11.97	08/23/05	6.67	5.30
		11.97	11.97	03/02/05	6.03	5.94
		11.97	11.97	11/08/04	6.94	5.03
		11.97	11.97	06/15/04	7.00	4.97
Second	D03-03	12.46	12.46	04/10/06	4.09	8.37
		12.46	12.46	08/23/05	5.49	6.97
		12.46	12.46	03/02/05	4.60	7.86
		12.46	12.46	11/08/04	5.35	7.11
		12.46	12.46	06/15/04	5.48	6.98
Second	D03-04	11.83	11.83	04/10/06	3.87	7.96
		11.83	11.83	08/23/05	5.11	6.72
		11.83	11.83	03/02/05	7.15	4.68
		11.83	11.83	11/08/04	5.25	6.58
		11.83	11.83	06/15/04	5.33	6.50
Second	D04-01	12.7	12.45 *	04/10/06	3.26	9.19
		12.7	12.45 *	08/23/05	5.00	7.45
		12.7	12.45 *	03/02/05	3.70	8.75
		12.7	12.45 *	11/08/04	5.29	7.16
		12.7	12.45 *	06/15/04	5.35	7.10
		12.7	12.45 *	03/01/04	4.26	8.19
		12.7	12.45 *	12/02/03	5.18	7.27
		12.7	12.45 *	09/15/03	6.20	6.25

Table 5-2
Summary of Groundwater Level Measurements at IR Site 3
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D04-01	12.7	12.45 *	06/23/03	5.86	6.59
		12.7	12.45 *	04/07/03	5.91	6.54
		12.7	12.45 *	12/09/02	6.60	5.85
		12.7	12.45 *	07/03/02	6.36	6.09
Second	D04-02	12.5	12.33 *	04/10/06	4.65	7.68
		12.5	12.33 *	08/23/05	6.53	5.80
		12.5	12.33 *	03/02/05	4.70	7.63
		12.5	12.33 *	11/08/04	6.03	6.30
		12.5	12.33 *	06/15/04	6.04	6.29
		12.5	12.33 *	03/02/04	4.79	7.54
		12.5	12.33 *	12/02/03	6.40	5.93
		12.5	12.33 *	09/15/03	6.31	6.02
		12.5	12.33 *	06/23/03	6.09	6.24
		12.5	12.33 *	04/07/03	6.15	6.18
		12.5	12.33 *	12/09/02	6.56	5.77
		12.5	12.33 *	07/03/02	6.31	6.02
Second	D04-03	11.7	11.60 *	04/10/06	5.12	6.48
		11.7	11.60 *	08/23/05	6.45	5.15
		11.7	11.60 *	03/02/05	5.15	6.45
		11.7	11.60 *	11/08/04	6.29	5.31
		11.7	11.60 *	06/15/04	6.40	5.20
		11.7	11.60 *	03/01/04	5.36	6.24
		11.7	11.60 *	12/02/03	6.64	4.96
		11.7	11.60 *	09/15/03	6.75	4.85
		11.7	11.60 *	06/23/03	6.43	5.17
		11.7	11.60 *	04/07/03	6.39	5.21
		11.7	11.60 *	12/09/02	6.84	4.76
		11.7	11.60 *	07/03/02	6.69	4.91
Second	D11-01	11.9	11.57 *	04/10/06	3.9	7.67
		11.9	11.57 *	08/23/05	5.75	5.82
		11.9	11.57 *	03/02/05	4.72	6.85
		11.9	11.57 *	11/08/04	5.64	5.93
		11.9	11.57 *	06/15/04	5.57	6.00
		11.9	11.57 *	03/01/04	5.01	6.56
		11.9	11.57 *	12/02/03	5.87	5.70
		11.9	11.57 *	09/15/03	5.75	5.82
		11.9	11.57 *	06/24/03	5.48	6.09
		11.9	11.57 *	04/07/03	6.06	5.51
		11.9	11.57 *	12/09/02	5.89	5.68
		11.9	11.57 *	07/08/02	7.32	4.25

Notes:
BTOC = below top of casing
msl = mean sea level
NC = Groundwater elevation not calculated
NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.
** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750
§ = Measured prior to purging well for sampling
‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds								Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	372-MW1	2006 01 (Spring)	< 50.0	< 50.0	**44.0 J**	< 50.0	**44.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	**23.0 J**	**23.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	**74.0 J**	**74.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	37-MJ-MW1	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**19.0 J**	< 50.0	< 300	**79.0**	**98.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**230**	**170**	< 300	**170**	**570**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**67.0**	**67.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	**130**	**130**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	**130**	**130**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	**298**	**298**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200 UJ	< 300	< 200	**480**	**480**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**640**	**640**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**470**	**470**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	**450**	**450**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	**1,000**	**1,000**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	398-MW4	2006 01 (Spring)	**3,600**	**3,600**	**4,500**	**1,700**	**13,400**	**0.60**	< 0.50	**0.60**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**72.0**	**220**	**240 J**	**1,200**	**1,732**	**1.4 J**	**0.10 J**	**3.0**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**350**	**1,000**	**240 J**	**1,800**	**3,390**	**11.0**	**0.60**	**2.8**	**0.20 J**	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**310**	**640**	**260 J**	**810**	**2,020**	**4.2**	< 0.50	**1.2**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**870**	**870**	**1.0**	< 0.50	**1.5**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	**510**	**510**	**0.96**	< 1.0	**1.9**	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**130 J**	< 280	**680**	**1,500**	**2,310**	**14.0**	< 1.0	**8.2**	**0.30 J**	< 1.0	**1.3 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	**270**	**840**	**1,110**	**9.7**	< 1.0	**7.4**	**0.45 J**	< 1.0	**1.2 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190 UJ	< 280	< 190	**490**	**490**	**1.0**	< 1.0	**2.9**	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.21 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**1,000**	**1,000**	**4.0**	< 0.50	**7.2**	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**470**	**470**	**2.8**	< 0.50	**2.5**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	**570**	**570**	**1.8**	< 0.50	**4.7**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	**340**	**340**	**1.8**	< 0.50	**3.4**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-04	2006 01 (Spring)	**17,000**	**23,000**	**230 J**	**3,900**	**44,130**	**150**	**0.80 J**	**9.9**	**25.0**	**0.80 J**	**4.9 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 02 (Summer)	**14,000**	**22,000**	< 3,000	**2,300**	**38,300**	**100 J**	**0.50 J**	**3.0**	**11.0**	**0.30 J**	**1.3 J**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2005 01 (Spring)	**36,000**	**36,000**	**910 J**	**2,600**	**75,510**	**63.0**	**0.40 J**	**2.3**	**7.0**	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 04 (Winter)	**21,000**	**23,000**	< 3,000	**2,100**	**46,100**	**110**	**0.40 J**	**1.8**	**5.0**	**0.30 J**	**2.4 J**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	**0.70**	< 0.70
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**2,400**	**2,400**	**170**	**0.70**	**8.8**	**37.0**	**0.70**	**2.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds										Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-04	2004 01 (Spring)	440	7,900	260	540	9,140	230	1.1	12.0	31.0	0.80 J	2.7	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	330	11,000	160 J	2,000	13,490	300 J	0.63 J	4.1	4.7	0.52 J	3.9	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	1,400 J	22,000	< 190	1,800	25,200	410	0.63 J	8.2	8.1	0.63 J	5.4	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	320	6,800	< 190	2,700	9,820	360	1.8	49.0	48.0	1.2	4.3	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	4.3	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	63.0	< 300	2,900	2,963	300	1.3	38.0	35.0	1.8	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	2,100	2,100	290	0.60 J	15.0	17.0	1.4	4.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2 J	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 03 (Fall)	< 50.0	< 50.0	< 300	3,200	3,200	550	1.2 J	77.0	51.0	2.7	5.6 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	0.30 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2002 02 (Summer)	< 50.0	96.0	< 300	4,500	4,596	440	11.0	150	470	22.0	3.5 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-05	2006 01 (Spring)	< 50.0	< 50.0	120 J	< 50.0	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	220 J	< 50.0	220	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	780	610	350	97.0	1,837	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	3.2	< 0.50	3.7	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 61.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.8	< 0.50	5.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9	< 1.0	3.2	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	46.0 J	46.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	1.8	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	40.0 J	40.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 77.0	< 300	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-06	2006 01 (Spring)	93.0	60.0	< 300	< 50.0	153	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.4 J	0.20 J	1.8	0.40 J	< 0.50	< 0.50	1.7
		2005 02 (Summer)	45.0 J	< 50.0	< 300	< 50.0	45.0	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	1.9	0.40 J	1.7	1.1	< 0.50	< 0.50	2.3
		2005 01 (Spring)	480	71.0	180 J	< 50.0	731	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	0.30 J	0.90	0.80	< 0.50	< 0.50	2.2
		2004 04 (Winter)	350	< 50.0	110 J	65.0	525	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	0.40 J	0.90	0.50	< 0.50	< 0.50	1.6
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	0.50	1.3	1.1	< 0.50	< 0.50	3.1
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	0.35 J	0.86 J	1.5	< 0.50	< 1.0	2.2
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	1.1	0.41 J	1.4	0.71 J	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	0.86 J	1.2	2.3	< 0.50	< 1.0	4.5
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.43 J	0.51 J	0.58 J	< 0.50	< 1.0	2.2
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	3.7	0.70	1.1	5.9	< 0.50	< 0.50	5.3
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.5	0.70	0.40 J	2.0	< 0.50	< 0.50	4.2
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	0.20 J	2.6	0.90	0.80	2.8	< 0.50	< 0.50	3.6
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	8.3	1.9	1.0	22.0	< 0.50	< 0.50	5.3
	M03-07	2006 01 (Spring)	39.0 J	< 50.0	160 J	< 50.0	199	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	610	< 50.0	750	72.0	1,432	0.30 J	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	150 J	< 50.0	150	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190 UJ	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 2.0	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-09	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	0.30 J	0.40 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-09	2005 02 (Summer)	< 50.0	< 50.0	**110 J**	< 50.0	**110**	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	**39.0 J**	**39.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**740**	**110**	**680**	**79.0**	**1,609**	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.90**	< 0.50	**0.70**	**0.60**	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	**0.58 J**	**0.65 J**	**0.51 J**	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	**26.0 J**	**26.0**	**0.31 J**	< 1.0	**1.1**	**1.8**	**1.4**	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	**61.0**	**61.0**	**1.1**	< 1.0	**2.8**	**5.4**	**2.0**	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	**47.0 J**	**47.0**	**0.46 J**	< 1.0	**1.9**	**3.6**	**1.3**	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	**65.0**	**65.0**	**0.50**	< 0.50	**1.5**	**3.0**	**0.80**	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**100**	**100**	**0.90**	< 0.50	**1.7**	**2.6**	**1.1**	**1.6 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 54.0	< 300	**0.60 J**	< 1.7	**0.80 J**	**1.2 J**	**0.40 J**	**3.7 J**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-10	2006 01 (Spring)	< 50.0	< 50.0	< 300	**55.0**	**55.0**	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 170	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	< 42.0	**110**	**1,900**	**26.0 J**	< 42.0	< 42.0	< 42.0	**13.0 J**	< 42.0
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**79.0**	**79.0**	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**110**	**1,800**	**32.0 J**	< 50.0	< 50.0	< 50.0	**16.0 J**	< 50.0
		2005 01 (Spring)	-	-	-	**83.0**	**83.0**	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 330	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	**85.0**	**1,800**	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0
		2004 04 (Winter)	**290**	< 50.0	**200 J**	**58.0**	**548**	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0	< 250	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0	**100**	**1,500**	**45.0 J**	< 63.0	< 63.0	< 63.0	< 63.0	< 63.0
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**96.0**	**96.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**110**	**1,600**	**36.0**	< 5.0	**4.1 J**	< 5.0	**17.0**	**5.7**
		2004 01 (Spring)	-	-	-	**48.0 J**	**48.0**	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	**99.0**	**1,400**	**45.0**	< 10.0	**4.2 J**	< 5.0	**15.0**	**10.0**
		2003 04 (Winter)	< 190	< 280	< 190	**56.0**	**56.0**	< 0.50	**1.1**	< 1.0	< 1.0	< 1.0	**0.94 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**100**	**1,500**	**26.0**	**0.38 J**	**5.4**	**1.1**	**27.0**	**8.5**
		2003 03 (Fall)	-	-	-	**47.0 J**	**47.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**110**	**3,300**	**29.0**	**1.2**	**6.4**	**1.1**	**23.0**	**6.0**
		2003 02 (Summer)	< 190 UJ	< 280	< 190	**49.0 J**	**49.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**120**	**2,300**	**37.0**	**1.0**	**5.2**	**1.1**	**25.0**	**7.0**
		2003 01 (Spring)	-	-	-	**72.0**	**72.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**92.0 J**	**1,300**	**32.0**	< 5.0	**4.0 J**	< 5.0	**21.0**	< 5.0
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**42.0 J**	**42.0**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5 UJ	**73.0**	**680**	**67.0**	< 2.5	**2.5**	< 2.5	**11.0**	**14.0**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 66.0	< 300	< 13.0	< 13.0	**4.0 J**	**15.0**	< 13.0	< 50.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	**130**	**2,400**	**29.0**	< 13.0	< 13.0	< 13.0	**34.0**	**4.9 J**
	M03-11	2006 01 (Spring)	< 50.0	**55.0**	< 300	< 50.0	**55.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**220**	< 50.0	< 300	< 50.0	**220**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	**98.0 J**	< 50.0	**98.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**22.0 J**	**22.0**	< 170	< 170	< 170	< 170	< 170	< 670	< 170	< 170	< 170	< 170	< 170	< 170 UJ	< 170	**68.0 J**	< 170	< 170	< 170	< 170	< 170	< 170
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 36.0	**11.0 J**	< 36.0	**9.1 J**	< 36.0	< 140	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
	M03-12	2006 01 (Spring)	< 50.0	< 50.0	**310**	< 50.0	**310**	**0.70**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	< 50.0	< 50.0	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-12	2004 04 (Winter)	**79.0**	< 50.0	< 300	**74.0**	**153**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	**0.69**	**0.23 J**	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0 UJ	< 280	**0.54**	**0.20 J**	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	< 50.0	< 50.0	**0.20 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	**0.28 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	< 50.0	< 50.0	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-13	2006 01 (Spring)	< 50.0	< 50.0	**70.0 J**	< 50.0	**70.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	**86.0 J**	< 50.0	**86.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**57.0**	< 50.0	< 300	**63.0**	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	**27.0 J**	**27.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	**1.6 J**	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	**1.5 J**	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
	M03-14	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M03-15	2006 01 (Spring)	-	-	-	-	-	< 130	< 130	< 130	< 130	< 130	< 500	< 130	< 130	< 130	< 130	< 130	< 130	**24,000**	< 130	**49.0 J**	< 130	< 130	< 130	< 130	< 130
		2005 02 (Summer)	-	-	-	-	-	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	< 29.0	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1	**9.7**	**20,000**	< 7.1	**34.0**	< 7.1	< 7.1	< 7.1	< 7.1	< 7.1
		2005 01 (Spring)	-	-	-	-	-	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 400 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	**16,000 J**	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ	< 100 UJ
		2004 04 (Winter)	-	-	-	-	-	< 200	< 200	< 200	< 200	< 200	< 800	< 200	< 200	< 200	< 200	< 200	< 200	**31,000**	< 200	< 200	< 200	< 200	< 200	< 200	< 200
		2004 02 (Summer)	-	-	-	-	-	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 330	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0	**20,000**	< 83.0	**32.0 J**	< 83.0	< 83.0	< 83.0	< 83.0	< 83.0
	M03-16	2006 01 (Spring)	-	-	-	-	-	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 17.0	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	**520**	< 4.2	**4.9**	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**380**	**1.1**	**4.4**	**0.40 J**	< 0.50	< 0.50	< 0.50	**0.60**
		2005 01 (Spring)	-	-	-	-	-	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	**400**	< 2.5	**2.7**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2004 04 (Winter)	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	**340**	**0.50 J**	**3.3**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 02 (Summer)	-	-	-	-	-	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	**280**	**0.50 J**	**2.4 J**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M03-17	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-17	2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M04-05	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**0.20 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**70.0**	< 50.0	**260 J**	**30.0 J**	**360**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**0.20 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**160**	< 50.0	**380**	< 50.0	**540**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**0.20 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**0.20 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.61 J**	< 1.0	**0.20 J**	< 1.0	**0.41 J**	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0	< 1.0	**0.47 J**	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.98 J**	< 1.0	< 1.0	< 1.0	**0.33 J**	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.92 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80 J**	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50 J	**0.60**	< 0.50	**0.90**	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	< 0.50	**0.20 J**	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**480**	**260**	**230 J**	< 50.0	**970**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
	M04-06	2006 01 (Spring)	**22.0 J**	< 50.0	**86.0 J**	< 50.0	**108**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	**68.0**	**68.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0 UJ	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07B-01	2006 01 (Spring)	**22.0 J**	< 50.0	**110 J**	< 50.0	**132**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**4.4**	**0.40 J**	**0.30 J**	< 0.50	< 0.50	**1.4**
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.4**	**0.10 J**	**0.30 J**	< 0.50	< 0.50	**0.30 J**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**4.2**	**0.20 J**	**0.30 J**	< 0.50	< 0.50	**0.40 J**
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.66 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.6**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.5**	**0.34 J**	**0.36 J**	< 0.50	< 1.0	**0.71**
		2003 02 (Summer)	< 190 UJ	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.4**	**0.22 J**	**0.26 J**	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**12.0 J**	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	**5.3**	**0.20 J**	**0.40 J**	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**5.4**	**0.30 J**	**0.50 J**	< 0.50	< 0.50	**0.50 J**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.6**	**0.30 J**	**0.40 J**	< 0.50	< 0.50	**0.40 J**
	M11-01	2005 02 (Summer)	**39.0 J**	< 50.0	< 300	< 50.0	**39.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**
		2005 01 (Spring)	**180**	< 50.0	< 300	< 50.0	**180**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M11-01	2004 04 (Winter)	**780**	**100**	**360**	< 50.0	**1,240**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	**0.20 J**	**0.10 J**	< 0.50	< 0.50	< 0.50	**0.80**
		2004 01 (Spring)	< 190	< 280	< 190	**30.0 J**	**30.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	**190**	< 50.0	**190**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.71 J**	< 1.0	**0.23 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.91**
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.60 J**	< 1.0	**0.32 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.76**
		2003 02 (Summer)	**140 J**	< 280	< 190	< 50.0	**140**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.75 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	**0.57**
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**13.0 J**	**13.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	**0.30 J**	**0.20 J**	< 0.50	< 0.50	< 0.50	**0.80**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50 J	**0.20 J**	< 0.50	< 0.50	< 0.50	**0.90**
	M11-04	2006 01 (Spring)	**69.0**	< 50.0	**460**	< 50.0	**529**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	**90.0 J**	< 50.0	**90.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**300**	< 50.0	**220 J**	**26.0 J**	**546**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**88.0**	< 50.0	< 300	< 50.0	**88.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.38 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.26 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**80.0**	**80.0**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	**1,700**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5 UJ	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50
	M11-05	2006 01 (Spring)	**27.0 J**	< 50.0	< 300	< 50.0	**27.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**2,000**	**110**	**970**	**27.0 J**	**3,107**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**1,800**	**110**	**830**	< 50.0	**2,740**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**210**	< 280	< 190	< 50.0	**210**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M11-06	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	< 0.50	**0.80**	**0.20 J**	< 0.50	**0.20 J**	< 0.50	**2.8**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M11-06	2005 01 (Spring)	< 50.0	< 50.0	< 300	**32.0 J**	**32.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	**0.50**	< 0.50	**0.10 J**	< 0.50	< 0.50	**0.70**
		2004 04 (Winter)	**38.0 J**	< 50.0	< 300	< 50.0	**38.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	**0.60**	**0.10 J**	**0.20 J**	< 0.50	< 0.50	**3.7**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	< 0.50	**0.50**	**0.10 J**	< 0.50	**0.10 J**	< 0.50	**1.9**
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.6**	< 1.0	**0.53 J**	< 1.0	< 1.0	< 0.50	< 1.0	**0.54**
		2003 04 (Winter)	< 190	< 290	< 190	**29.0 J**	**29.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.5**	< 1.0	**0.69 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.30 J**	< 1.0	**0.66 J**	< 1.0	< 1.0	< 0.50	< 1.0	**2.8**
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.72 J**	< 1.0	**0.47 J**	< 1.0	< 1.0	< 0.50	< 1.0	**2.0**
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8 J**	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	**0.50**	**0.20 J**	< 0.50	< 0.50 J	< 0.50	**4.2**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**0.50**	**0.20 J**	**0.20 J**	**0.20 J**	< 0.50	**2.3**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	**0.30 J**	**0.20 J**	**0.20 J**	< 0.50	**4.2**
	MBG-3	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**380**	< 50.0	**270 J**	**63.0**	**713**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 200 UJ	< 300 UJ	< 200 UJ	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW360-1	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**34.0 J**	**50.0**	< 300	**970**	**1,054**	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 67.0	< 17.0	< 17.0	**220**	**5.4 J**	**53.0**	< 17.0	**2,500**	**13.0 J**	**420**	**110**	**14.0 J**	< 17.0	< 17.0	< 17.0
		2005 01 (Spring)	< 50.0	**180**	< 300	**1,100**	**1,280**	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 80.0	< 20.0	< 20.0	**220**	**5.3 J**	**56.0**	< 20.0	**2,400**	**14.0 J**	**320**	**79.0**	**12.0 J**	< 20.0	< 20.0	< 20.0
		2004 04 (Winter)	**420**	< 50.0	**320**	**1,200**	**1,940**	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 40.0	< 10.0	< 10.0	**220**	**5.4 J**	**55.0**	< 10.0	**2,200**	**9.2 J**	**350**	**87.0**	**13.0**	< 10.0	< 10.0	< 10.0
		2004 02 (Summer)	**420**	**140**	**360**	**980**	**1,900**	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 50.0	< 13.0	< 13.0	**190**	**4.5 J**	**43.0**	< 13.0	**2,000**	**7.6 J**	**320**	**74.0**	**12.0 J**	< 13.0	< 13.0	< 13.0
		2004 01 (Spring)	**25.0 J**	**150**	< 300	**1,200**	**1,375**	**1.4 J**	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	< 6.3	**260**	**6.3**	**55.0**	**2.8 J**	**1,900**	**6.6**	**220**	**48.0**	**13.0**	< 6.3	< 6.3	**1.6 J**
		2003 04 (Winter)	< 190	< 280	< 190	**1,300**	**1,300**	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 20.0	< 50.0	< 10.0	**240**	**5.4 J**	**54.0**	**2.5 J**	**2,100**	**8.5 J**	**220**	**61.0**	**13.0**	< 5.0	< 10.0	**3.8 J**
		2003 03 (Fall)	< 190	< 280	< 190	**1,200**	**1,200**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**1.1**	**210**	**5.5**	**46.0**	**2.3**	**1,200**	**6.5**	**190**	**42.0**	**13.0**	< 0.50	< 1.0	**1.9**
		2003 02 (Summer)	< 200	< 290	< 200	**1,400**	**1,400**	< 0.50	< 1.0	< 1.0	< 1.0	**0.22 J**	< 2.0	< 5.0	**1.2**	**260**	**5.5**	**56.0**	**2.5**	**2,400 J**	**9.3**	**190**	**48.0**	**14.0**	< 0.50	< 1.0	**1.8**
		2003 01 (Spring)	< 190 UJ	< 280	< 190	**1,000**	**1,000**	< 0.50	< 1.0	< 1.0	< 1.0	**0.26 J**	< 2.0	< 5.0	**1.2**	**220**	**4.9**	**40.0**	**2.4**	**1,800**	**6.2**	**140**	**28.0**	**13.0**	< 0.50	< 1.0	**1.9**
		2002 04 (Winter)	< 50.0	**100**	< 300	**960**	**1,060**	**4.7 J**	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	**1.6 J**	**220**	**3.2 J**	**47.0**	**3.1 J**	**2,100 J**	**9.2**	**130**	**21.0**	**12.0**	< 6.3	< 6.3	**3.6 J**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	**1,100**	**1,100**	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	< 6.3	**240**	**4.5 J**	**48.0**	**3.0 J**	**2,300**	**4.9 J**	**110**	**20.0**	**13.0**	< 6.3	< 6.3	< 6.3
		2002 02 (Summer)	< 50.0	< 50.0	< 300	**860**	**860**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	**1.3 J**	**200**	**3.7 J**	**43.0**	**2.9 J**	**2,100**	**5.4**	**110**	**20.0**	**15.0**	< 5.0	< 5.0	< 5.0
			680	**180**	**970**	**940**	**2,770**	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 25.0	< 6.3	< 6.3	**190**	**3.8 J**	**41.0**	< 6.3	**2,200**	**6.6**	**77.0**	**34.0**	**16.0**	< 6.3	< 6.3	< 6.3
	MW360-2	2006 01 (Spring)	**49.0 J**	< 50.0	**81.0 J**	< 50.0	**130**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	**1.2 J**	< 2.5	**0.80 J**	< 2.5	**14.0**	**35.0**	**1.5 J**	< 2.5	**6.7**	**0.90 J**	**0.50 J**	< 2.5
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	**1.4**	< 0.50	**0.80**	**0.10 J**	**19.0**	**44.0**	**1.2**	**0.30 J**	**7.2**	**0.80**	**0.60**	< 0.50
		2005 01 (Spring)	**81.0**	< 50.0	**110 J**	< 50.0	**191**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	**0.30 J**	**1.3**	< 1.3	< 1.3	< 1.3	**20.0**	**40.0**	**1.4**	< 1.3	**4.8**	**0.50 J**	**0.60 J**	< 1.3
		2004 04 (Winter)	**1,100**	**690**	< 300	**50.0**	**1,840**	**0.40 J**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 2.0	< 0.50	**1.0**	**1.0**	< 0.50	**0.40 J**	< 0.50	**3.5**	**4.8**	**0.80**	**0.60**	**0.50**	< 0.50	**0.10 J**	**1.1**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	**1.3**	< 0.50	**0.80**	**0.10 J**	**18.0**	**41.0**	**1.6**	**0.30 J**	**4.2**	**0.40 J**	**0.80**	**0.30 J**
		2004 01 (Spring)	< 190	< 290	< 190	**24.0 J**	**24.0**	**0.44 J**	< 1.0	< 1.0	< 1.0	< 1.0	**0.73 J**	< 5.0	**0.56 J**	**1.2**	< 1.0	**0.63 J**	< 1.0	**12.0**	**25.0**	**1.5**	**1.2**	**2.9**	< 0.50	**0.65 J**	**3.9**
		2003 04 (Winter)	**150 J**	< 280	< 190	**88.0**	**238**	**0.83**	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	**1.3**	**0.95 J**	< 1.0	**0.30 J**	< 1.0	**3.6**	**7.2**	**2.3**	**3.0**	**1.6**	< 0.50	**0.39 J**	**7.6**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds								Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW360-2	2003 03 (Fall)	< 200 UJ	< 290 UJ	< 200 UJ	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.39 J**	**1.4**	< 1.0	**0.62 J**	< 1.0	**30.0**	**110**	**1.8**	**0.42 J**	**4.8**	**0.30 J**	**0.94 J**	**0.34 J**
		2003 02 (Summer)	< 190 UJ	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.29 J**	**0.97 J**	< 1.0	**0.41 J**	< 1.0	**24.0**	**51.0**	**1.3**	**0.23 J**	**3.4**	< 0.50	**0.69 J**	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**44.0 J**	**44.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	**1.2**	< 0.50	**0.80**	**0.20 J**	**39.0 J**	**64.0**	**1.4**	**0.20 J**	**4.3**	< 0.50	**1.2**	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**28.0 J**	**28.0**	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**1.0**	**1.1**	< 0.50	**0.60**	< 0.50	**7.3**	**13.0**	**1.4**	**0.80**	**1.4**	< 0.50	**0.50**	**3.6**
		2002 03 (Fall)	**26.0 J**	< 50.0	< 300	< 50.0	**26.0**	**0.30 J**	**0.10 J**	**0.50 J**	**1.7**	**0.60**	< 2.0	< 0.50	**0.60**	**1.2**	**0.070 J**	**0.60**	**0.20 J**	**30.0**	**77.0**	**1.9**	**0.40 J**	**4.3**	**0.20 J**	**0.90**	**0.70**
		2002 02 (Summer)	**140**	**52.0**	**160 J**	< 50.0	**352**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	**29.0**	**71.0**	**1.1**	< 1.0	**3.3**	< 1.0	**1.3**	< 1.0
	MW360-3	2006 01 (Spring)	**21.0 J**	< 50.0	< 300	< 50.0	**21.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	**91.0 J**	< 50.0	**91.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**170**	< 50.0	**310**	< 50.0	**480**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	**11.0**	< 0.50	**0.60**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**79.0**	< 50.0	**150 J**	< 50.0	**229**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**120**	< 50.0	**220 J**	< 50.0	**340**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW360-4	2006 01 (Spring)	< 50.0	< 50.0	< 300	**92.0**	**92.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	**0.50 J**	**1.0**	**3.3**	< 1.0	**0.70 J**	< 1.0	**180**	**1.5**	**78.0**	**7.3**	**1.3**	< 1.0	< 1.0	**1.2**
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**150**	**150**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	**1.3**	**4.1**	< 1.0	**1.0**	< 1.0	**270**	**2.1**	**110**	**7.5**	**2.1**	< 1.0	< 1.0	**1.1**
		2005 01 (Spring)	**58.0**	< 50.0	**140 J**	**170**	**368**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	**1.0 J**	**4.2**	< 2.5	< 2.5	< 2.5	**270**	**1.6 J**	**100**	**4.8**	**2.2 J**	< 2.5	< 2.5	< 2.5
		2004 04 (Winter)	**46.0 J**	< 50.0	< 300	**130**	**176**	**0.60 J**	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	**1.4 J**	**5.7**	< 2.5	**1.3 J**	< 2.5	**270**	**2.2 J**	**120**	**7.2**	**1.9 J**	< 2.5	< 2.5	**0.80 J**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**140**	**140**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	**1.2**	**5.0**	< 1.0	**1.1**	< 1.0	**180**	**1.7**	**93.0**	**9.0**	**1.4**	< 1.0	< 1.0	**2.3**
		2004 01 (Spring)	< 190	< 280	**120 J**	**90.0**	**210**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**1.1**	**5.1**	< 1.0	**0.89 J**	< 1.0	**310**	**1.8**	**98.0**	**3.6**	**2.1**	< 0.50	< 1.0	**2.4**
		2003 04 (Winter)	< 190	< 280	**690**	**80.0**	**770**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**1.1**	**4.0**	< 1.0	**0.90 J**	< 1.0	**200 J**	**1.6**	**110 J**	**7.7**	**1.4**	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200 UJ	< 290 UJ	< 200 UJ	**23.0 J**	**23.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**1.6**	**6.3**	< 1.0	**1.4**	< 1.0	**440**	**3.7**	**180**	**7.0**	**3.2**	< 0.50	< 1.0	**1.7**
		2003 02 (Summer)	< 190	< 280	< 190	**160**	**160**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**1.4**	**5.6**	< 1.0	**1.2**	< 1.0	**360**	**2.7**	**150**	**8.1**	**2.6**	< 0.50	< 1.0	**3.6**
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**170**	**170**	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 3.3	< 0.80	**1.1**	**5.1**	< 0.80	**1.1**	< 0.80	**330**	**1.9**	**110**	**4.8**	**2.4**	< 0.80	< 0.80	**3.0**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**130**	**130**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.9	< 0.70	**1.0**	**4.3**	< 0.70	**1.3**	**1.3 J**	**220**	**1.1**	**71.0**	**5.0**	**1.6**	< 0.70	< 0.70	**0.60 J**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 72.0	< 300	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**2.0**	**4.0**	**0.10 J**	**1.5**	< 0.50	**170**	**1.4**	**91.0**	**14.0**	**1.4**	< 0.50	< 0.50	**3.5**
		2002 02 (Summer)	**100**	< 50.0	**96.0 J**	**190**	**386**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	**1.6**	**5.4**	< 1.3	**1.8**	< 1.3	**380**	**2.1**	**130**	**14.0**	**2.5**	< 1.3	< 1.3	**8.7**
	MW97-3	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**68.0**	< 50.0	**170 J**	**33.0 J**	**271**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**94.0**	< 50.0	**150 J**	**24.0 J**	**268**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event**	**AWQC:** NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW97-3	2003 04 (Winter)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	**32.0 J**	< 50.0	**220 J**	< 50.0	**252**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	**0.50 J**	**1.7**	**0.60**	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW01	2006 01 (Spring)	**15,000**	**18,000**	**150 J**	**3,100 J**	**36,250**	**5.6**	**0.090 J**	**3.0**	< 0.50	< 0.50	**1.4 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW02	2006 01 (Spring)	**77.0**	**250**	**88.0 J**	**1,500 J**	**1,915**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
	OU2B-MW03	2006 01 (Spring)	**48.0 J**	< 50.0	< 300	**670 J**	**718**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW04	2006 01 (Spring)	< 50.0	< 50.0	< 300	**1,800 J**	**1,800**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.080 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	OU2B-MW05	2006 01 (Spring)	< 50.0	< 50.0	< 300	**110 J**	**110**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
	WA-8	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	**87.0**	< 50.0	**180 J**	**64.0**	**331**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 250	**330**	< 1,500	**92.0**	**422**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	**23.0 J**	**23.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	**220**	< 50.0	**220**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**32.0 J**	**32.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
SWBZ	D03-01	2006 01 (Spring)	< 50.0	< 50.0	< 300	**140**	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	**270 J**	**170**	**440**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	**230**	**230**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**180**	**180**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	**130**	**130**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	**100**	**100**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**270**	**270**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	**110**	**110**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-02	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2 J**	< 0.50	**3.0**	**0.30 J**	< 0.50	< 0.50	< 0.50	**7.5**
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-03	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	**1.0**	**150**	**300**	**1,750**	**1,750**	NA	**13.0**	**70.0**	**600**	NA	**5.0**	**5.0**	**5.0**	**6.0**	**6.0**	**10.0**	**5.0**	**0.50**	**200**	**0.50**
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D03-03	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D03-04	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-01	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-02	2006 01 (Spring)	**36.0 J**	< 50.0	**65.0 J**	< 50.0	**101**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	**99.0**	**99.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0 UJ	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D04-03	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	**22.0 J**	**22.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	**0.32 J**	< 1.0	< 1.0	< 1.0	**4.8**	< 1.0	**0.51 J**	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	**0.40 J**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D11-01	2006 01 (Spring)	**320**	< 50.0	**2,100**	< 50.0	**2,420**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**27.0 J**	< 50.0	**450**	< 50.0	**477**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**69.0**	< 50.0	**230 J**	< 50.0	**299**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	**180 J**	< 50.0	**180**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 5-3

Groundwater Sample Analytical Results at IR Site 3 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
				TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:		NA	NA	NA	NA	NA	**1.0**	**150**	**300**	**1,750**	**1,750**	NA	**13.0**	**70.0**	**600**	NA	**5.0**	**5.0**	**5.0**	**6.0**	**6.0**	**10.0**	**5.0**	**0.50**	**200**	**0.50**
		BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D11-01	2003 02 (Summer)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	372-MW1	2006 01 (Spring)	0.33 J	< 5.0	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	**1.9 J**	**7.0**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.66 J	2.1 J	100	< 2.0	< 5.0	< 10.0	0.049 J	1.7 J	< 3.0	23.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.3 J	1.8 J	2.6 J	< 100	< 100	22.0	3.2	0.91	17.0
		2004 04 (Winter)	0.42 J	< 5.0	**170**	< 2.0	< 5.0	< 10.0	< 1.0	2.8 J	< 3.0	23.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	5.4 J	< 20.0	< 100	< 100	43.0	5.3	1.1	18.0
		2004 02 (Summer)	< 1.0	4.4 J	83.0	< 1.0	< 5.0	< 10.0	< 1.0	1.2	0.21 J	17.0	0.054 J	0.83 J	0.84 J	< 5.0	< 1.0	< 5.0	2.4 J	**20.0**	3.1 J	36.0 J	24.0	3.3	1.3	12.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	102	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	3.7 J	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	7.9 J	< 200	< 100 UJ	32.2	3.8	< 0.50	11.2
		2003 02 (Summer)	< 50.0	< 50.0	85.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	15.3	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	4.8 J	< 20.0	< 200	< 100	24.5	2.9	0.67	9.1 J
		2002 02 (Summer)	0.71 J	3.8 J	82.0	< 2.0	< 5.0	< 10.0	0.068 J	< 10.0	0.045 J	22.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	68.0 J	< 100	22.0	3.1	0.94	13.0
	37-MJ-MW1	2005 02 (Summer)	1.0	**20.0**	14.0	< 2.0	< 5.0	< 10.0	0.29 J	2.9 J	< 3.0	400	< 0.20	< 20.0	< 20.0	1.7 J	< 5.0	< 5.0	1.3 J	**200**	55.0 J	600	19.0	9.0	3.8	7.4
		2004 04 (Winter)	0.19 J	**28.0**	42.0	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	< 3.0	**1,300**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**3,100**	51.0	26.0	6.9	13.0
		2004 02 (Summer)	0.16 J	**21.0**	14.0	< 1.0	< 1.0	0.71 J	< 1.0	0.32 J	0.22 J	310	< 0.20	< 20.0	0.73 J	< 5.0	< 1.0	< 1.0	< 10.0	< 2.8	< 50.0	660 J	17.0	9.0	4.1	8.0
		2003 04 (Winter)	< 5.0 UJ	**22.1 J**	35.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	758	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	1,340	47.5	22.7	< 7.0	16.8
		2003 02 (Summer)	< 50.0	**22.8 J**	15.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	397	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.9 J	**12.2 J**	< 200	837	20.2	9.3	3.0 J	6.6
		2002 04 (Winter)	0.24 J	**21.0**	< 30.0	< 2.0	< 5.0	< 10.0	0.095 J	< 10.0	< 3.0	510	< 0.20	< 20.0	0.25 J	< 5.0	< 5.0	< 2.0	1.0 J	4.9 J	8.9 J	830	30.0	14.0	7.4	23.0
		2002 02 (Summer)	0.31 J	**25.0**	26.0	< 2.0	< 5.0	< 10.0	0.11 J	0.15 J	0.14 J	610	< 0.20	1.1 J	< 20.0	< 5.0	< 5.0	**4.2**	0.40 J	< 20.0	< 100	1,400	26.0	12.0	5.1	8.4
	398-MW4	2006 01 (Spring)	< 1.0	3.5 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	**2.8 J**	**6.9**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.21 J	2.2 J	**150**	< 2.0	< 5.0	0.79 J	0.18 J	0.78 J	< 3.0	560	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	5.8 J	< 100	**1,800**	40.0	37.0	44.0	850
		2004 04 (Winter)	< 1.0	< 5.0	84.0	< 2.0	< 5.0	< 10.0	0.17 J	< 10.0	< 3.0	370	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.82 J	**11.0 J**	< 100	1,400	40.0	26.0	30.0	480
		2004 02 (Summer)	0.30 J	1.1	120	< 1.0	< 1.0	1.0 J	0.29 J	0.77 J	0.30 J	550	< 0.20	< 20.0	1.5	< 5.0	< 1.0	< 1.0	< 10.0	**15.0 J**	< 50.0	1,600 J	34.0	49.0	55.0	1,000
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**142**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	712	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**2,790**	44.3	50.3	< 63.4	1,130
		2003 02 (Summer)	< 50.0	< 50.0	**127**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	709	< 0.40	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**2,370**	43.3	50.7	46.0 J	895
		2002 04 (Winter)	< 50.0	5.3	< 140	< 2.0	< 5.0	1.2 J	0.24 J	0.079 J	< 3.0	650	< 0.20	< 20.0	1.6 J	**5.2**	< 5.0	< 2.0	1.0 J	**19.0 J**	11.0 J	**1,800**	42.0	55.0	62.0 J	1,200
		2002 02 (Summer)	0.15 J	7.0	120 J	< 2.0	< 5.0	< 10.0	0.29 J	0.50 J	0.18 J	520 J	< 0.20	2.9 J	1.6 J	**4.2 J**	< 5.0	< 2.0	< 10.0	3.5 J	86.0 J	1,200	39.0	50.0 J	49.0	960
	M03-04	2006 01 (Spring)	0.17 J	**58.0**	-	0.30 J	< 5.0	1.5 J	-	< 10.0	< 3.0	-	< 0.20	-	1.7 J	< 5.0	< 5.0	**2.4 J**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	1.1	**68.0**	**460**	< 2.0	< 5.0	1.0 J	0.32 J	1.4 J	< 3.0	680	< 0.20	< 20.0	3.4 J	< 5.0	< 5.0	< 5.0	< 10.0	**20.0**	< 100	**9,500**	56.0	86.0	74.0	1,500
		2004 04 (Winter)	0.69 J	**45.0**	**530**	< 2.0	< 5.0	< 10.0	0.44 J	< 10.0	**6.3**	790	< 0.20	< 20.0	2.5 J	< 5.0	< 5.0	< 5.0	< 10.0	9.9 J	< 100	**7,800**	73.0	120	85.0	2,100
		2004 02 (Summer)	3.3	**120**	**440**	< 1.0	< 5.0	0.48 J	0.36 J	1.4	**13.0**	420	< 0.20	5.6	5.5	< 5.0	< 1.0	< 5.0	**9.7 J**	< 1.0	< 50.0	**2,700**	60.0	98.0	82.0	1,900
		2003 04 (Winter)	< 5.0 UJ	**78.8**	**624**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	**7.7 J**	536	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**10,200**	68.7	115	95.9	1,880
		2003 02 (Summer)	< 50.0	**133**	**733**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	**18.6**	519	< 0.40	**5.6 J**	2.3 J	< 20.0	< 10.0	< 100	2.1 J	< 20.0	< 200	**8,030**	74.0	114	90.0 J	1,410
		2002 04 (Winter)	1.4 J	**65.0**	**540**	< 2.0	< 5.0	< 10.0	0.45 J	0.49 J	**21.0**	870	< 0.20	< 20.0	2.0 J	**16.0**	< 5.0	< 3.9	2.2 J	< 20.0	15.0 J	**6,900**	78.0	140	80.0 J	2,100
		2002 02 (Summer)	1.3 J	**83.0**	**880 J**	< 2.0	< 5.0	< 10.0	0.48 J	0.99 J	**58.0**	810 J	< 0.20	2.3 J	2.3 J	**7.6**	< 5.0	< 2.0	< 10.0	< 20.0	**220**	**3,900**	93.0	140 J	81.0	2,000
	M03-05	2006 01 (Spring)	0.20 J	1.8 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	**2.2 J**	**7.6**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.62 J	7.7	41.0	< 2.0	< 5.0	1.6 J	**18.0**	1.4 J	< 3.0	**14,000**	< 0.20	< 20.0	**29.0**	**12.0**	**4.1 J**	< 5.0	< 10.0	< 20.0	< 100	**1,800**	**650**	1,700	430	13,000
		2004 04 (Winter)	0.48 J	**11.0**	120	< 2.0	< 5.0	2.1 J	0.52 J	< 10.0	< 3.0	420	< 0.20	**6.0 J**	2.6 J	**3.9 J**	< 5.0	< 5.0	7.0 J	7.6 J	< 100	760	34.0	61.0	56.0	1,500
		2004 02 (Summer)	0.36 J	**12.0**	**160**	< 1.0	< 5.0	1.6 J	0.51 J	2.0	0.50 J	650	0.061 J	**6.1**	3.1	< 5.0	< 1.0	< 5.0	3.4 J	6.2	< 50.0	**1,700**	45.0	79.0	72.0	2,000
		2003 04 (Winter)	< 5.0	**11.3 J**	**159**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	657	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	**12.0 J**	< 20.0	< 200	913	51.6	76.6	83.8	1,820
		2003 02 (Summer)	< 50.0	**14.9 J**	**159**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	701	< 0.40	5.5 J	1.6 J	< 20.0	< 10.0	< 100	**11.5 J**	< 20.0	< 200	1,210	56.8	80.8	81.1 J	1,380
		2002 04 (Winter)	< 50.0	6.3	**150**	< 2.0	< 5.0	< 10.0	0.54 J	0.41 J	< 3.0	530	< 0.20	3.7 J	1.5 J	**3.8 J**	< 5.0	< 2.0	8.2 J	**19.0 J**	< 100	1,400	49.0	61.0	63.0	1,500
		2002 02 (Summer)	1.1 J	**24.0**	**180**	< 2.0	< 5.0	**11.0 J**	0.54 J	0.60 J	< 3.0 UJ	740	< 0.20	**5.7 J**	1.9 J	**8.3 J**	< 5.0	1.0 J	**10.0 J**	< 20.0	**120**	**1,900**	62.0	82.0	72.0	1,700

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Innovative Technical Solutions, Inc.

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	NA	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M03-06	2006 01 (Spring)	< 1.0	**62.0**	-	< 2.0	< 5.0	1.1 J	-	< 10.0	< 3.0	-	< 0.20	-	4.2 J	< 5.0	< 5.0	**3.4 J**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.40 J	**53.0**	73.0	0.51 J	< 5.0	< 10.0	0.20 J	< 10.0	< 3.0	57.0	< 0.20	**21.0**	3.9 J	< 5.0	< 5.0	< 5.0	4.9 J	8.3 J	< 100	72.0 J	17.0	8.6	7.9	240
		2005 01 (Spring)	0.17 J	**47.0**	120	< 2.0	< 5.0	1.1 J	0.23 J	0.75 J	< 3.0	81.0	< 0.20	**10.0 J**	4.1 J	< 5.0	< 5.0	< 5.0	4.6 J	**14.0 J**	< 100	190	36.0	17.0	9.6	360
		2004 04 (Winter)	0.18 J	**37.0**	85.0	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	< 3.0	47.0	< 0.20	**12.0 J**	2.1 J	< 5.0	< 5.0	< 5.0	1.2 J	< 20.0	< 100	140	23.0	10.0	8.0	230
		2004 02 (Summer)	0.18 J	**42.0**	98.0	< 1.0	< 1.0	0.70 J	0.15 J	0.49 J	0.20 J	70.0	< 0.20	**15.0 J**	2.7	< 5.0	< 1.0	< 1.0	< 10.0	5.9 J	6.4 J	180 J	36.0	11.0	8.5	220
		2004 01 (Spring)	2.0 J	**50.4**	**183**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	125	< 0.40	**15.5 J**	< 20.0	< 20.0	< 10.0	< 5.0	7.3 J	< 20.0	< 200	304	55.4	23.0	15.0	380
		2003 04 (Winter)	< 5.0	**43.2 J**	86.2 J	< 4.0	< 5.0	< 10.0	< 10.0	5.8 J	< 10.0	49.2	< 0.40	**16.3 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	117	26.8	10.5	9.9	229
		2003 03 (Fall)	3.9 J	**63.0**	81.8 J	0.38 J	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	49.8	< 0.40	**24.8 J**	3.2 J	< 20.0	< 10.0	< 5.0	5.4 J	4.9 J	< 200	95.0 J	28.6	10.0	6.7 J	270
		2003 02 (Summer)	< 50.0	**45.4 J**	83.4 J	< 4.0	< 5.0	< 10.0	< 10.0	1.8 J	< 10.0	51.0	< 0.40	**13.6 J**	2.8 J	< 20.0	< 10.0	< 5.0	2.8 J	< 20.0	< 200	107	26.3	10.4	10.3 J	182
		2003 01 (Spring)	< 1.0	**37.0**	94.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	61.0	< 0.20	**15.0 J**	**8.1 J**	< 5.0	< 5.0	< 1.0	3.8 J	1.8 J	< 100	330	31.0 J	12.0	8.8	230
		2002 04 (Winter)	0.26 J	**44.0**	93.0 J	0.038 J	< 5.0	< 10.0	0.19 J	< 10.0	< 3.0	47.0	< 0.20	**18.0 J**	2.7 J	< 5.0	< 5.0	< 2.0	2.9 J	< 20.0	< 100	260	43.0 J	9.3	8.9	290
		2002 03 (Fall)	0.22 J	**46.0**	72.0	< 2.0	< 5.0	< 10.0	0.15 J	< 10.0	< 3.0	43.0	< 0.20	**15.0 J**	2.4 J	< 5.0	< 5.0	< 2.0	5.0 J	< 20.0	< 100	110	27.0	7.5	8.1	260
		2002 02 (Summer)	0.31 J	**44.0**	97.0	0.11 J	< 5.0	**4.2 J**	0.34 J	0.52 J	0.33 J	70.0	< 0.20	**20.0 J**	2.9 J	-	< 5.0	**6.0**	3.3 J	5.2 J	67.0 J	240	32.0	11.0	9.1	250
	M03-07	2006 01 (Spring)	< 1.0	4.2 J	-	< 2.0	< 5.0	**5.8 J**	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	1.8 J	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.71 J	**14.0**	**250**	< 2.0	0.52 J	**15.0**	0.45 J	< 10.0	< 3.0	200	< 0.20	2.1 J	1.3 J	< 5.0	< 5.0	< 5.0	**16.0**	**12.0 J**	< 100	**17,000**	58.0	44.0	24.0 J	340
		2004 04 (Winter)	0.23 J	4.8 J	**230**	< 2.0	0.47 J	**11.0**	0.35 J	< 10.0	< 3.0	220	< 0.20	< 20.0	2.1 J	< 5.0	< 5.0	< 5.0	**8.7 J**	5.9 J	< 100	**21,000**	62.0	23.0	18.0	210
		2004 02 (Summer)	2.5	< 1.0	**290**	< 1.0	< 1.0	**17.0**	0.56 J	2.5	0.26 J	260	< 0.20	< 20.0	4.1	< 5.0	< 1.0	< 1.0	**20.0**	**30.0 J**	17.0 J	**25,000 J**	72.0	25.0	24.0	270
		2003 04 (Winter)	< 5.0 UJ	**12.3 J**	**326**	< 4.0	< 5.0	< 22.1	< 10.0	< 10.0	< 10.0	281	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	6.5 J	**275**	**26,800**	76.2	36.7	< 35.0	356
		2003 02 (Summer)	< 50.0	**10.8 J**	**333**	< 4.0	< 5.0	**9.9 J**	< 10.0	< 10.0	< 10.0	286	< 0.40	< 50.0	2.3 J	< 20.0	< 10.0	< 5.0	**10.6 J**	< 20.0	**276**	**25,900**	79.3	28.4	33.3 J	254
		2002 04 (Winter)	0.82 J	**14.0**	**330 J**	0.11 J	< 5.0	**39.0**	0.80 J	2.4 J	**1.4 J**	280 J	< 0.20	2.5 J	3.7 J	**4.3 J**	< 5.0	**5.0**	**43.0**	1.4 J	**110**	**28,000 J**	72.0 J	47.0 J	41.0 J	440
		2002 02 (Summer)	0.35 J	4.5 J	**270**	< 2.0	< 5.0	3.4 J	0.42 J	0.58 J	0.98 J	170	< 0.20	< 20.0	2.2 J	1.9 J	< 5.0	< 2.0	3.9 J	3.5 J	71.0 J	**8,700**	62.0	22.0	23.0	280
	M03-09	2006 01 (Spring)	0.30 J	**8.6**	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.17 J	-	< 0.20	-	**110**	< 5.0	1.5 J	**18.0**	-	**11.0 J**	-	-	-	-	-	-
		2005 02 (Summer)	0.43 J	**9.7**	50.0	< 2.0	< 5.0	< 10.0	**34.0**	1.8 J	< 3.0	**3,200**	< 0.20	< 20.0	**95.0**	< 5.0	**3.1 J**	< 5.0	< 10.0	9.7 J	< 100	**2,800**	**440**	1,400	390	12,000
		2004 04 (Winter)	0.29 J	5.5	95.0	< 2.0	< 5.0	1.4 J	**37.0**	< 10.0	< 3.0	**3,200**	< 0.20	< 20.0	**100**	< 5.0	< 5.0	< 5.0	1.8 J	**19.0 J**	< 100	**6,900**	370	1,200	340	13,000
		2004 02 (Summer)	1.1	**15.0**	72.0	< 1.0	0.40 J	**3.7 J**	**39.0**	**23.0**	0.38 J	**3,100**	< 0.20	1.6 J	**110**	< 5.0	< 1.0	< 5.0	3.4 J	< 1.0	< 50.0	**6,400**	**450**	1,500	430	14,000
		2003 04 (Winter)	< 25.0 UJ	< 50.0	59.3 J	< 4.0	< 5.0	< 10.0	< 47.9	< 10.0	< 10.0	**3,120**	< 0.40	< 50.0	**120**	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**4,890**	**415**	1,800	700	16,000
		2003 02 (Summer)	< 50.0	**11.2 J**	71.8 J	< 4.0	< 5.0	< 10.0	**36.8**	< 10.0	< 10.0	**3,860**	< 0.40	< 50.0	**88.8**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**7,310**	**480 J**	1,490	421 J	11,100 J
		2002 04 (Winter)	0.26 J	**17.0**	89.0	< 2.0 J	< 5.0	< 10.0	**40.0**	6.6 J	0.67 J	**3,400**	< 0.20	0.79 J	**100**	**65.0**	< 5.0	< 2.3	0.87 J	< 20.0	31.0 J	**4,200**	**420**	1,300	370	12,000
		2002 03 (Fall)	0.25 J	< 5.0	84.0	< 2.0	< 5.0	0.67 J	**41.0**	6.2 J	< 3.0	**2,800**	< 0.20	0.74 J	**99.0**	< 5.0	< 5.0	< 2.0	< 10.0	**46.0 J**	< 100	**1,900**	**410**	880	360	8,100
	M03-10	2006 01 (Spring)	0.50 J	**32.0**	-	< 2.0	< 5.0	< 10.0	-	2.3 J	< 3.0	-	< 0.20	-	2.6 J	< 5.0	**2.6 J**	1.9 J	-	**97.0**	-	-	-	-	-	-
		2005 02 (Summer)	0.71 J	**36.0**	27.0	< 2.0	< 5.0	< 10.0	0.19 J	< 10.0	< 3.0	38.0	< 0.20	3.8 J	1.4 J	< 50.0	< 5.0	< 5.0	**46.0**	10.0 J	< 100	36.0 J	4.1	3.4	3.8 J	1,000
		2004 04 (Winter)	0.48 J	**28.0**	38.0	< 2.0	< 5.0	**4.0 J**	0.25 J	4.6 J	< 3.0	8.5 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	**51.0**	< 20.0	< 100	< 100	3.0	1.6	4.8	1,200
		2004 02 (Summer)	0.46 J	**28.0**	35.0	< 1.0	< 1.0	0.20 J	0.22 J	1.3	0.39 J	< 10.0	< 0.20	2.9 J	< 20.0	< 1.0	< 1.0	< 1.0	**43.0**	< 2.0	16.0 J	< 100	2.9 J	1.1	3.7	1,300
		2003 04 (Winter)	< 5.0	**35.7 J**	37.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	**52.3**	< 20.0	< 200	< 100	3.4	1.2	3.8	1,650
		2003 02 (Summer)	< 50.0	**38.0 J**	34.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1.2 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 100	**45.7 J**	< 20.0	< 200	< 100	3.1	1.3	5.1 J	1,090
		2002 04 (Winter)	0.90 J	**28.0**	43.0	< 2.0	< 5.0	< 10.0	0.28 J	1.3 J	0.34 J	0.82 J	< 0.20	**9.5 J**	2.3 J	**4.9 J**	< 5.0	< 2.5	**37.0**	2.3 J	45.0 J	< 100	4.0	2.3	7.4	1,000
		2002 03 (Fall)	0.70 J	**29.0**	41.0	< 2.0	< 5.0	< 10.0	0.27 J	0.75 J	< 3.0	9.3 J	< 0.20	**11.0 J**	1.7 J	**3.1 J**	< 5.0	< 2.0	**46.0**	5.0 J	< 100	< 100	3.8	2.0	5.4	1,300
	M03-11	2006 01 (Spring)	0.14 J	4.4 J	-	< 2.0	< 5.0	**8.5 J**	-	**3.7 J**	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	**11.0 J**	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

ITSI Innovative Technical Solutions, Inc.

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M03-11	2005 02 (Summer)	0.30 J	8.0	28.0	< 2.0	< 5.0	< 10.0	0.11 J	1.3 J	< 3.0	160	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.63 J	< 20.0	< 100	430	4.3	3.1	10.0	330
		2004 04 (Winter)	< 1.0	**11.0**	44.0	< 2.0	< 5.0	< 10.0	0.088 J	3.9 J	< 3.0	260	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	2.4 J	6.2 J	< 100	500	5.7	4.5	11.0	430
		2004 02 (Summer)	2.7	**10.0**	41.0	< 1.0	< 1.0	0.37 J	0.11 J	< 1.0	< 1.0	200	0.054 J	5.2	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0	2.9	9.6 J	890	5.1 J	3.5	9.8	380
		2003 04 (Winter)	< 5.0	**16.0 J**	41.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	211	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	237	3.7	4.4	11.0	492
		2003 02 (Summer)	< 50.0	**21.7 J**	51.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	202	< 0.40	< 50.0	2.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	322	3.5 J	4.2	9.0 J	434 J
		2002 04 (Winter)	0.23 J	**16.0**	47.0	< 2.0	< 5.0	< 10.0	0.43 J	0.53 J	0.33 J	340	< 0.20	3.7 J	2.9 J	1.1 J	< 5.0	< 2.0	2.1 J	1.4 J	**150**	480	5.4	6.7	12.0	600
		2002 03 (Fall)	0.30 J	4.8 J	54.0	< 2.0	< 5.0	0.61 J	0.83 J	0.21 J	< 3.0	140	< 0.20	**6.4 J**	4.0 J	1.5 J	< 5.0	< 2.0	5.1 J	5.9 J	< 120	200	8.2	11.0	20.0	870
	M03-12	2006 01 (Spring)	0.28 J	4.4 J	-	< 2.0	< 5.0	3.2 J	-	2.2 J	< 3.0	-	< 0.20	-	**33.0**	< 5.0	< 5.0	< 5.0	-	**20.0 J**	-	-	-	-	-	-
		2005 02 (Summer)	0.29 J	5.8	73.0	0.66 J	< 5.0	< 10.0	0.20 J	< 10.0	< 3.0	4.5 J	< 0.20	**12.0 J**	**14.0 J**	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	< 100	3.7	4.5	18.0	340
		2004 04 (Winter)	0.27 J	< 100	100	< 2.0	< 5.0	1.1 J	0.28 J	< 10.0	< 3.0	20.0	< 0.20	**10.0 J**	**10.0 J**	< 5.0	< 5.0	< 5.0	< 10.0	6.6 J	< 100	< 100	6.7	15.0	16.0	420
		2004 02 (Summer)	0.55 J	5.2	**200**	< 1.0	< 1.0	1.1	0.57 J	0.79 J	0.069 J	2.0 J	< 0.20	**16.0 J**	**36.0**	< 5.0	< 1.0	< 1.0	0.94 J	**12.0 J**	< 50.0	54.0 J	4.3	1.0	25.0	340
		2003 04 (Winter)	2.4 J	4.9 J	**541**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0	-	**16.4 J**	**38.0 J**	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	81.2 J	< 100 UJ	23.3	8.2	32.1	365
		2003 02 (Summer)	< 50.0	< 50.0	**138**	0.33 J	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	16.0	< 0.40	**19.8 J**	**22.3**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	5.4 J	8.9	29.9 J	493 J
		2002 04 (Winter)	0.33 J	4.5 J	87.0	< 2.0	< 5.0	< 10.0	0.45 J	1.5 J	0.30 J	12.0	< 0.20	**15.0 J**	**7.5 J**	0.89 J	< 5.0	< 2.0	3.3 J	5.4 J	19.0 J	< 100	23.0	28.0	32.0	390
		2002 03 (Fall)	0.18 J	3.1 J	**220**	< 2.0	< 5.0	0.11 J	2.6 J	0.93 J	< 3.0	**1,200**	< 0.20	**8.4 J**	**8.0 J**	1.5 J	< 5.0	< 2.0	4.0 J	2.4 J	< 100	91.0 J	46.0	69.0	6.5	910
	M03-13	2006 01 (Spring)	0.25 J	0.96 J	-	< 2.0	< 5.0	**12.0**	-	< 10.0	0.24 J	-	< 0.20	-	2.1 J	< 5.0	**3.7 J**	**17.0**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.43 J	6.8	**260**	< 2.0	< 5.0	**4.3 J**	0.42 J	1.4 J	< 3.0	10.0	< 0.20	3.9 J	1.4 J	< 5.0	< 5.0	1.3 J	**23.0**	< 20.0	< 100	< 100	9.4	1.5	7.8	12.0
		2004 04 (Winter)	0.14 J	3.3 J	72.0	0.50 J	< 5.0	1.1 J	0.21 J	< 10.0	< 3.0	220	< 0.20	3.3 J	5.6 J	< 5.0	< 5.0	< 5.0	2.7 J	10.0 J	< 100	12.0 J	19.0	18.0	3.7	190
		2004 02 (Summer)	1.8	6.8	81.0	< 1.0	< 5.0	0.88 J	0.22 J	2.7	0.079 J	12.0	< 0.20	3.7 J	2.6	< 5.0	< 1.0	< 5.0	3.8 J	5.6	< 50.0	39.0 J	14.0	18.0	6.2	200
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	56.3 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	31.5	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	**12.6 J**	< 200	< 100 UJ	22.0	19.6	4.0	182
		2003 02 (Summer)	< 50.0	**8.3 J**	54.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	180	< 0.40	5.2 J	6.6 J	< 20.0	< 10.0	< 5.0	3.0 J	< 20.0	< 200	< 100	25.4 J	24.0	6.0 J	200 J
		2002 04 (Winter)	0.13 J	5.9	44.0	< 2.0	< 5.0	< 10.0	0.62 J	0.37 J	0.20 J	570	< 0.20	**5.8 J**	3.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	8.2 J	< 380	18.0	19.0	3.2	200
		2002 03 (Fall)	0.30 J	< 5.0	37.0	< 2.0	< 5.0	< 10.0	1.2 J	0.22 J	< 3.0	350	< 0.20	4.6 J	5.5 J	< 5.0	< 5.0	< 2.0	3.2 J	3.0 J	< 100	63.0 J	19.0	19.0	3.3	190
	M03-15	2006 01 (Spring)	0.22 J	5.4	60.0	< 2.0	< 5.0	< 10.0	**66.0**	2.8 J	**1.7 J**	**8,100**	< 0.20	< 20.0	**110**	< 5.0	1.2 J	**4.9 J**	< 10.0	9.7 J	< 100 UJ	140	**480**	1,600	460	15,000
	M03-16	2006 01 (Spring)	0.25 J	7.6	34.0	< 2.0	< 5.0	2.0 J	**37.0**	2.6 J	0.22 J	**19,000**	< 0.20	< 20.0	**44.0**	**3.5 J**	**2.5 J**	< 5.0	< 10.0	< 20.0	< 100 UJ	1,100	**720**	2,300	530	19,000
	M04-05	2006 01 (Spring)	0.26 J	1.6 J	-	< 2.0	< 5.0	**20.0**	-	2.4 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	1.4 J	**10.0**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.86 J	4.9 J	**250**	< 2.0	< 5.0	**47.0**	0.10 J	5.1 J	< 3.0	33.0	< 0.20	**190**	2.3 J	**3.6 J**	< 5.0	< 5.0	4.7 J	7.5 J	< 100	< 100	72.0	14.0	12.0 J	26.0
		2005 01 (Spring)	0.27 J	< 5.0	**200**	< 2.0	< 5.0	**25.0**	0.072 J	2.7 J	< 3.0	0.46 J	< 0.20	**170**	6.2 J	**5.0**	< 5.0	< 5.0	2.7 J	**14.0 J**	< 100	< 100	73.0	13.0	9.2	26.0
		2004 04 (Winter)	0.38 J	< 5.0	**320**	< 2.0	< 5.0	**73.0**	0.12 J	7.5 J	< 3.0	54.0	< 0.20	**250**	< 20.0	< 5.0	< 5.0	< 5.0	3.1 J	9.5 J	< 100	< 100	100	22.0	16.0	42.0
		2004 02 (Summer)	0.42 J	1.9	**380**	< 1.0	< 1.0	**71.0**	0.13 J	6.6	0.29 J	58.0	< 0.20	**350**	3.5	< 5.0	< 1.0	< 1.0	5.5 J	**37.0 J**	< 50.0	22.0 J	99.0	21.0	18.0	44.0
		2004 01 (Spring)	< 5.0	< 50.0	**263**	< 4.0	< 5.0	**43.9**	**5.1 J**	5.4 J	< 10.0	< 10.0	< 0.40	**167**	< 20.0	< 20.0	< 10.0	< 5.0	**19.1 J**	9.9 J	< 200	< 100	95.3	17.0	12.8	30.7
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	**322**	< 4.0	< 5.0	**81.6 J**	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0	-	**231 J**	**11.5 J**	< 20.0 UJ	< 10.0	-	**19.8 J**	**21.8**	< 200	< 100 UJ	99.9	21.0	14.6	45.9
		2003 03 (Fall)	< 5.0	< 50.0	**414**	< 4.0	< 5.0	**107**	< 10.0	5.9 J	< 10.0	30.0	< 0.40	**372**	3.3 J	< 20.0	< 10.0	< 5.0	< 50.0	5.5 J	< 200	< 100	111	24.8	19.4 J	46.7
		2003 02 (Summer)	< 50.0	< 50.0	**383**	< 4.0	< 5.0	**115**	< 10.0	6.2 J	< 10.0	21.5	< 0.40	**335**	3.0 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	111 J	23.5	13.7 J	38.4 J
		2003 01 (Spring)	0.34 J	< 5.0	**270**	< 2.0	< 5.0	**65.0**	< 10.0	3.9 J	< 3.0	0.95 J	< 0.20	**260**	3.1 J	< 5.0	< 5.0	< 1.0	3.6 J	9.4 J	4.7 J	240	80.0	18.0	14.0	28.0
		2002 04 (Winter)	< 50.0	1.4 J	**290**	< 2.0	0.093 J	**19.0**	0.24 J	2.7 J	< 3.0	12.0	< 0.23	**310 J**	5.0 J	1.3 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	300	96.0	24.0	16.0	54.0
		2002 03 (Fall)	0.35 J	< 5.0	**380**	< 2.0	< 5.0	**83.0**	0.12 J	3.8 J	< 3.0	8.9 J	< 0.20	**390**	2.8 J	1.0 J	< 5.0	< 2.0	6.3 J	7.3 J	< 100	190	100	24.0	18.0	49.0
		2002 02 (Summer)	0.44 J	1.6 J	**340**	< 2.0	< 5.0	**87.0**	0.11 J	4.5 J	< 3.0	9.8 J	< 0.20	**340**	3.2 J	1.0 J	< 5.0	< 2.0	3.9 J	10.0 J	< 100	250	100	23.0	17.0	48.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
	Well Number	**Event** **AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M04-06	2006 01 (Spring)	0.54 J	< 5.0	-	< 2.0	**59.0**	< 10.0	-	**9.6 J**	0.52 J	-	< 0.20	-	**15.0 J**	< 5.0	**3.2 J**	**13.0**	-	**110**	-	-	-	-	-	-
		2005 02 (Summer)	0.94 J	8.0	83.0	0.26 J	0.72 J	< 10.0	1.0	**8.4 J**	< 3.0	880	< 0.20	**7.0 J**	**12.0 J**	**4.0 J**	< 5.0	< 5.0	8.3 J	**18.0 J**	< 100	13.0 J	68.0	16.0	9.7	130
		2004 04 (Winter)	0.48 J	< 5.0	110	< 2.0	0.40 J	< 10.0	0.28 J	6.4 J	< 3.0	150	< 0.20	2.4 J	5.8 J	< 5.0	< 5.0	< 5.0	7.1 J	6.9 J	< 100	18.0 J	120	18.0	8.3	110
		2004 02 (Summer)	0.39 J	3.2	**160**	< 1.0	0.70 J	0.43 J	0.35 J	4.8	< 1.0	740	< 0.20	< 20.0	**11.0**	< 5.0	< 1.0	< 1.0	**8.6 J**	**15.0 J**	< 50.0	53.0 J	140	23.0	10.0	81.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0 UJ	**148**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	5.6 J	< 10.0 UJ	90.7	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	**19.7 J**	< 200	< 100 UJ	161	23.3	7.8	28.7
		2003 02 (Summer)	< 50.0	< 50.0	**188**	< 4.0	< 5.0	< 10.0	< 10.0	4.6 J	< 10.0	656	< 0.40	< 50.0	**9.8 J**	< 20.0	< 10.0	< 5.0	6.0 J	< 20.0	< 200	26.9 J	200	31.8	10.0 J	37.8
		2002 04 (Winter)	0.39 J	3.9 J	110	< 2.0	0.18 J	< 10.0	0.96 J	5.1 J	< 3.0	860	< 0.20	2.4 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.5	5.4 J	1.9 J	< 100	410	98.0	23.0	9.7	98.0
		2002 02 (Summer)	0.52 J	3.8 J	120	< 2.0	0.30 J	2.0 J	0.74 J	6.2 J	0.78 J	440	< 0.20	< 20.0	**8.7 J**	< 5.0	< 5.0	< 2.0	**9.8 J**	3.2 J	16.0 J	280	110	18.0	7.5	67.0
	M07B-01	2006 01 (Spring)	-	1.9 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.21 J	-	< 0.20	-	< 20.0	< 5.0	**2.1 J**	**4.5 J**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.29 J	6.3	**140**	< 2.0	< 5.0	< 10.0	0.17 J	1.1 J	< 3.0	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.4 J	< 10.0	5.5 J	< 100	120	49.0	25.0	20.0	230
		2004 04 (Winter)	0.17 J	< 5.0	**150**	< 2.0	< 5.0	< 10.0	0.27 J	< 10.0	< 3.0	230	< 0.20	< 20.0	< 20.0	< 5.0	**3.9 J**	< 5.0	< 10.0	< 20.0	8.2 J	750	55.0	26.0	14.0	160
		2004 02 (Summer)	0.14 J	< 17.0	**130**	0.33 J	< 5.0	1.3 J	0.27 J	< 10.0	0.43 J	150	< 0.20	3.5 J	4.0 J	< 5.0	< 5.0	< 1.0	< 10.0	**19.0 J**	< 50.0	98.0 J	45.0	26.0	19.0	220
		2003 04 (Winter)	< 5.0 UJ	5.6 J	58.2 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	< 10.0	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	6.9 J	< 200	< 100 UJ	31.4	12.4	3.7	42.1
		2003 02 (Summer)	< 50.0	< 50.0	91.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	75.9	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	25.7 J	31.7	14.7	11.6 J	97.5
		2002 04 (Winter)	< 50.0	7.9	**160**	< 2.0	< 5.0	< 10.0	0.21 J	0.29 J	< 3.0	190	< 0.21	3.7 J	1.2 J	0.95 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	300	51.0	29.0	18.0	210
		2002 02 (Summer)	0.27 J	7.4	120 J	< 2.0	< 5.0	< 10.0	0.23 J	0.54 J	0.13 J	92.0 J	0.041 J	3.1 J	0.71 J	< 5.0	< 5.0	< 2.0	< 10.0	9.6 J	80.0 J	58.0 J	41.0	20.0 J	13.0	130
	M11-01	2006 01 (Spring)	< 1.0	2.9 J	-	< 2.0	< 5.0	0.91 J	-	< 10.0	< 3.0	-	< 0.20	-	2.2 J	< 5.0	< 5.0	**2.9 J**	-	4.4 J	-	-	-	-	-	-
		2005 02 (Summer)	0.38 J	5.4	**160**	< 2.0	< 5.0	1.0 J	0.26 J	1.1 J	< 3.0	1,000	< 0.20	< 20.0	1.7 J	< 5.0	< 5.0	< 5.0	0.56 J	**12.0 J**	< 100	**1,900**	47.0	31.0	29.0	240
		2004 04 (Winter)	0.12 J	< 5.0	**180**	< 2.0	< 5.0	< 10.0	0.28 J	< 10.0	< 3.0	800	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	4.0 J	**2,200**	55.0	37.0	29.0	270
		2004 02 (Summer)	0.17 J	< 13.0	**140**	0.30 J	< 5.0	0.83 J	0.21 J	< 10.0	0.068 J	630	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 1.0	< 10.0	**28.0**	< 50.0	**2,200**	36.0	32.0	30.0	360
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**172**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	585	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	8.1 J	< 200	**1,730**	52.2	36.7	< 29.2	297
		2003 02 (Summer)	< 50.0	< 50.0	**188**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1,060	< 0.40	< 50.0	4.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**2,310**	56.1 J	37.3	25.4 J	262 J
		2002 04 (Winter)	< 50.0	3.7 J	**150**	< 2.0	< 5.0	< 10.0	0.24 J	0.25 J	< 3.0	520	< 0.27	1.1 J	2.1 J	1.4 J	< 5.0	< 2.0	< 10.0	**21.0 J**	< 100	**2,500**	39.0	32.0	27.0	820
		2002 02 (Summer)	< 50.0	3.3 J	**160**	< 2.0	< 5.0	1.1 J	0.36 J	0.49 J	< 3.0	880	< 0.20	< 20.0	2.8 J	1.6 J	< 5.0	< 2.0	1.4 J	6.5 J	< 100	1,100	45.0	33.0	28.0	280
	M11-04	2006 01 (Spring)	< 1.0	2.6 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	1.8 J	-	3.7 J	-	-	-	-	-	-
		2005 02 (Summer)	0.64 J	4.6 J	74.0	0.42 J	1.3 J	< 10.0	0.069 J	< 10.0	**8.9**	200	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 5.0	2.0 J	**14.0 J**	< 100	150	41.0	19.0	9.9	46.0
		2004 04 (Winter)	0.18 J	< 5.0	61.0	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	< 3.0	180	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	10.0 J	74.0 J	48.0	20.0	9.3	35.0
		2004 02 (Summer)	0.21 J	< 12.0	76.0	0.38 J	< 5.0	0.54 J	0.12 J	< 10.0	0.18 J	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	1.2 J	**23.0**	< 50.0	240	49.0	22.0	10.0	43.0
		2003 04 (Winter)	< 5.0	5.2 J	78.5 J	< 4.0	**2.5 J**	**17.9**	**16.0**	**17.1**	< 10.0	178	< 0.40	< 50.0	**14.4 J**	< 20.0	< 27.5	< 5.0	< 50.0	< 20.0	< 200	73.0 J	66.8	6.4	21.7	35.5
		2003 02 (Summer)	< 50.0	< 50.0	106	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	218	< 0.40	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	2.5 J	< 20.0	< 200	175	87.3	40.8	12.7 J	59.2
		2002 04 (Winter)	< 50.0	6.5	70.0	< 2.0	< 5.0	< 10.0	0.17 J	0.55 J	< 3.0	200	< 0.20	3.0 J	1.2 J	0.36 J	< 5.0	< 2.0	< 10.0	**14.0 J**	< 100	270	45.0	17.0	9.1	39.0
		2002 02 (Summer)	0.21 J	< 5.0	99.0 J	< 2.0	< 5.0	< 10.0	0.12 J	0.73 J	0.11 J	220 J	< 0.20	1.4 J	0.82 J	< 5.0	< 5.0	< 2.0	< 10.0	0.70 J	**150**	200	71.0	30.0 J	11.0	58.0
	M11-05	2006 01 (Spring)	0.91 J	2.4 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.25 J	-	< 0.20	-	3.6 J	< 5.0	**4.5 J**	**13.0**	-	8.4 J	-	-	-	-	-	-
		2005 02 (Summer)	0.64 J	6.1	110	< 2.0	< 5.0	0.83 J	0.15 J	2.3 J	< 3.0	390	< 0.20	< 20.0	1.3 J	< 5.0	< 5.0	< 5.0	1.7 J	**18.0 J**	< 100	310	44.0	40.0	27.0	570
		2004 04 (Winter)	0.13 J	< 5.0	**370**	< 2.0	< 5.0	< 10.0	0.27 J	< 10.0	< 3.0	**1,300**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**3,100**	160	130	46.0	1,000
		2004 02 (Summer)	0.090 J	< 5.7	**130**	0.31 J	< 5.0	1.6 J	0.13 J	< 10.0	0.56 J	380	< 0.20	< 20.0	3.2 J	< 5.0	0.99 J	< 1.0	< 10.0	**22.0**	< 50.0	890	46.0	37.0	28.0	650
		2003 04 (Winter)	< 5.0 UJ	5.8 J	**206**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	826	-	**12.8 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	**11.4 J**	< 200	**2,050 J**	103	89.6	39.2	811
		2003 02 (Summer)	< 50.0	< 50.0	**141**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	468	< 0.40	< 50.0	1.9 J	< 20.0	< 10.0	< 5.0	2.0 J	< 20.0	< 200	1,360	58.6 J	50.0	37.5 J	793 J

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
M11-05	2002 04 (Winter)		< 50.0	4.5 J	**760**	< 2.0	< 5.0	< 10.0	0.44 J	1.6 J	< 3.0	**2,700**	< 0.20	2.2 J	2.8 J	< 5.0	0.74 J	< 2.0	< 10.0	< 20.0	< 100	**8,400**	290	280	57.0	1,500
	2002 02 (Summer)		0.072 J	5.4	120 J	< 2.0	< 5.0	1.9 J	0.12 J	0.69 J	0.047 J	370 J	< 0.20	2.3 J	0.99 J	**2.2 J**	< 5.0	< 2.0	< 10.0	< 20.0	< 100	870	42.0	36.0 J	24.0	670
M11-06	2006 01 (Spring)		0.26 J	1.9 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.20 J	-	< 0.20	-	< 20.0	< 5.0	**2.5 J**	**7.8**	-	< 20.0	-	-	-	-	-	-
	2005 02 (Summer)		0.56 J	2.4 J	93.0	< 2.0	< 5.0	1.1 J	0.10 J	**4.0 J**	< 3.0	340	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.1 J	**22.0**	< 100	460	34.0	35.0	23.0	390
	2004 04 (Winter)		0.13 J	< 5.0	58.0	< 2.0	< 5.0	< 10.0	0.094 J	< 10.0	< 3.0	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	**16.0 J**	6.5 J	200	32.0	27.0	18.0	250
	2004 02 (Summer)		0.079 J	< 5.0	93.0	0.37 J	< 5.0	1.1 J	0.11 J	< 10.0	0.43 J	270	< 0.20	< 20.0	2.4 J	< 5.0	< 5.0	< 1.0	< 10.0	**18.0 J**	< 50.0	320	38.0	34.0	21.0	320
	2003 04 (Winter)		< 5.0 UJ	< 50.0	63.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	89.1	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	96.6 J	37.4	26.3	< 14.3	139
	2003 02 (Summer)		< 50.0	< 50.0	81.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	189	< 0.40 UJ	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	2.0 J	< 20.0	< 200	178	35.1	25.4	20.4 J	171
	2002 04 (Winter)		< 50.0	2.7 J	43.0	< 2.0	< 5.0	< 10.0	0.13 J	0.43 J	< 3.0	180	< 0.20	1.7 J	0.69 J	0.75 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	270	20.0	18.0	16.0	210
	2002 02 (Summer)		< 50.0	< 5.0	52.0 J	< 2.0	< 5.0	< 10.0	0.068 J	0.83 J	0.30 J	130 J	< 0.20	1.4 J	0.42 J	0.50 J	< 5.0	< 2.0	< 10.0	10.0 J	< 100	140	21.0	16.0 J	14.0	160
MBG-3	2005 02 (Summer)		0.43 J	**14.0**	**140**	< 2.0	0.57 J	2.5 J	0.15 J	< 10.0	< 3.0	410	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.9 J	3.5 J	< 20.0	< 100	**15,000**	66.0	40.0	14.0	98.0
	2004 04 (Winter)		0.18 J	**12.0**	**140**	< 2.0	< 5.0	2.8 J	0.18 J	< 10.0	< 3.0	500	< 0.20	< 20.0	2.2 J	< 5.0	< 5.0	< 5.0	2.7 J	8.8 J	< 100	**17,000**	67.0	50.0	13.0	96.0
	2004 02 (Summer)		1.4	**13.0**	**130**	< 1.0	< 1.0	2.2	0.17 J	0.33 J	0.073 J	490	< 0.20	0.88 J	< 20.0	< 1.0	< 1.0	< 1.0	< 2.4	**12.0**	6.1 J	**17,000**	60.0 J	50.0	17.0	110
	2003 04 (Winter)		< 5.0 UJ	**10.2 J**	**130**	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	499	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	**13.9 J**	< 200	**18,200 J**	68.9	55.3	15.4	111
	2003 02 (Summer)		< 50.0	**15.1 J**	**131**	< 4.0	< 5.0	2.7 J	< 10.0	< 10.0	< 10.0	483	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	3.0 J	**13.7 J**	< 200	**18,000**	60.7	51.7	19.7 J	109
	2002 04 (Winter)		0.19 J	**13.0**	< 75.0 UJ	< 2.0	< 5.0	3.3 J	0.19 J	0.10 J	< 3.0	270 J	< 0.20	1.3 J	1.2 J	0.64 J	< 5.0	< 3.3	3.4 J	< 20.0	< 100	**16,000**	30.0 J	29.0 J	17.0	72.0
	2002 02 (Summer)		0.18 J	**14.0**	**130 J**	< 2.0	< 5.0	**5.6 J**	0.17 J	0.31 J	0.056 J	450	< 0.20	0.91 J	1.2 J	0.82 J	0.15 J	< 2.0	4.5 J	1.8 J	7.2 J	**15,000**	52.0	48.0	15.0	120
MW360-1	2006 01 (Spring)		< 1.0	2.8 J	-	< 2.0	< 5.0	< 10.0	-	3.1 J	< 3.0	-	< 0.20	-	**870**	< 5.0	**2.3 J**	< 5.0	-	< 20.0	-	-	-	-	-	-
	2005 02 (Summer)		0.30 J	1.4 J	41.0	< 2.0	< 5.0	< 10.0	**9.6**	**7.2 J**	< 3.0	180	< 0.20	1.3 J	**770**	< 5.0	< 5.0	0.94 J	3.7 J	6.6 J	< 100	20.0 J	5.7	12.0	5.0	660
	2005 01 (Spring)		0.15 J	< 5.0	38.0	< 2.0	< 5.0	< 10.0	**5.4**	**10.0**	< 3.0	180	< 0.20	< 20.0	**740**	< 5.0	< 5.0	< 5.0	3.9 J	**25.0**	< 100	22.0 J	5.9	14.0	4.4	810
	2004 04 (Winter)		0.13 J	< 5.0	41.0	< 2.0	< 5.0	**4.0 J**	**5.7**	5.0 J	**97.0 J**	180	< 0.20	< 20.0	**700**	**4.4 J**	< 5.0	< 5.0	4.1 J	8.2 J	< 100	24.0 J	6.2	14.0	5.2	800
	2004 02 (Summer)		0.18 J	1.0	43.0	< 1.0	< 1.0	0.23 J	**4.7**	6.8	0.44 J	210	< 0.20	1.1 J	**710**	0.85 J	< 1.0	< 1.0	4.7	3.6	2.8 J	< 100	6.6 J	16.0	5.4	800
	2004 01 (Spring)		< 5.0	< 50.0	42.3 J	< 4.0	< 5.0	< 10.0	**7.4 J**	6.8 J	< 10.0	204	< 0.40	< 50.0	**663**	< 20.0	< 10.0	< 5.0	7.1 J	< 20.0	< 200	< 100	6.7	15.9	6.4	826
	2003 04 (Winter)		< 5.0 UJ	< 50.0	42.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	200	< 0.40	< 50.0	**625**	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	< 100	6.5	15.5	< 6.0	862
	2003 03 (Fall)		< 5.0	< 50.0	44.5 J	< 4.0	< 5.0	< 10.0	**4.7 J**	**3.5 J**	< 10.0	208 J	< 0.40	< 50.0	**624 J**	< 20.0	< 10.0	< 5.0	4.6 J	< 20.0	32.9 J	45.6 J	6.8 J	16.4 J	5.1	756
	2003 02 (Summer)		< 50.0	< 50.0	47.8 J	< 4.0	< 5.0	< 10.0	**4.7 J**	2.8 J	< 10.0	234	< 0.40	< 50.0	**664**	< 20.0	< 10.0	< 5.0	4.9 J	**12.6 J**	< 200	< 100	7.5	17.4	9.6 J	776
	2003 01 (Spring)		< 1.0	< 5.0	47.0	< 2.0	< 5.0	< 10.0	**7.7 J**	**5.0 J**	**3.1**	230	< 0.20	2.3 J	**590**	**2.7 J**	< 5.0	< 1.0	5.9 J	9.4 J	< 100	96.0 J	7.7 J	16.0	5.3	740
	2002 04 (Winter)		0.12 J	2.2 J	50.0	< 2.0	0.078 J	< 10.0	4.1 J	2.8 J	< 3.0	210	< 0.20	< 20.0	**510 J**	**3.4 J**	< 5.0	< 2.0	4.4 J	< 20.0	8.7 J	< 100	7.0	14.0	5.6	990
	2002 03 (Fall)		0.17 J	< 5.0	45.0	< 2.0	< 5.0	0.10 J	4.1 J	2.9 J	< 3.0	210	< 0.20	0.87 J	**520**	1.5 J	< 5.0	< 2.0	5.1 J	0.49 J	< 100	< 100	6.6	16.0	5.5	960
	2002 02 (Summer)		< 50.0	< 5.0	52.0	< 2.0	< 5.0	**5.5 J**	< 10.0	3.0 J	< 3.0	230	< 0.20	< 20.0	**500**	1.8 J	< 5.0	< 2.0	5.7 J	1.4 J	66.0 J	180 J	7.7	16.0	5.0	850
MW360-2	2006 01 (Spring)		< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.25 J	-	< 0.20	-	**21.0**	< 5.0	**4.0 J**	**4.5 J**	-	< 20.0	-	-	-	-	-	-
	2005 02 (Summer)		0.34 J	3.3 J	**650**	< 2.0	< 5.0	2.0 J	**14.0**	**4.8 J**	< 3.0	**3,700**	< 0.20	2.5 J	**20.0**	**2.0 J**	**1.8 J**	< 5.0	< 10.0	< 20.0	< 100	280	150	170	0.90	370
	2005 01 (Spring)		0.10 J	< 5.0	**640**	< 2.0	< 5.0	< 10.0	**14.0**	1.8 J	< 3.0	**3,600**	< 0.20	< 20.0	**19.0 J**	< 5.0	< 5.0	< 5.0	< 10.0	**12.0 J**	< 100	220	180	220	0.68	410
	2004 04 (Winter)		0.080 J	**23.0**	100	< 2.0	< 5.0	< 10.0	3.5	< 10.0	< 3.0	**2,300**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**3,500**	41.0	31.0	< 0.50	43.0
	2004 02 (Summer)		< 1.0	6.5	**870**	< 1.0	< 1.0	1.4	**15.0**	1.4	0.37 J	**5,400**	< 0.20	< 20.0	**19.0**	< 5.0	< 1.0	< 1.0	< 10.0	< 1.0	< 50.0	1,100 J	190	220	1.0	440
	2004 01 (Spring)		< 5.0	**9.3 J**	**469**	< 4.0	< 5.0	< 10.0	**8.3 J**	< 10.0	< 10.0	**4,240**	< 0.40	< 50.0	**18.0 J**	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**1,940**	140	154	< 0.74	250
	2003 04 (Winter)		< 5.0 UJ	**27.0 J**	80.8 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	**1,930**	-	< 50.0 UJ	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	**12.3 J**	< 200	**3,810 J**	37.6	22.4	0.50	38.1
	2003 03 (Fall)		< 5.0	7.8 J	**809**	< 4.0	< 5.0	< 10.0	**15.5**	2.4 J	< 10.0	**4,770 J**	< 0.40	< 50.0	**18.5 J**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**2,010**	202 J	236 J	1.5	304

FWBZ

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

ITSI Innovative Technical Solutions, Inc.

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
MW360-2	2003 02 (Summer)		< 50.0	< 50.0	**811**	< 4.0	< 5.0	< 10.0	**17.1**	< 10.0	< 10.0	**4,680**	< 0.40	< 50.0	**21.2**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	715	205	257	1.2 J	375
	2003 01 (Spring)		< 1.0	4.2 J	**800**	< 2.0	< 5.0	< 10.0	**17.0**	1.2 J	< 3.0	**4,200**	< 0.20	1.4 J	**21.0**	**4.7 J**	< 5.0	< 1.0	< 10.0	< 20.0	3.1 J	1,400	190	210	0.86	340
	2002 04 (Winter)		< 50.0	**13.0**	**320**	< 2.0	< 5.0	< 10.0	**6.9 J**	0.59 J	< 3.0	**3,500**	< 0.20	2.8 J	7.1 J	1.6 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	**3,200**	98.0	94.0	0.92	160
	2002 03 (Fall)		0.049 J	**12.0**	**690**	< 2.0	< 5.0	0.12 J	**12.0**	0.81 J	< 3.0	**4,400**	< 0.20	2.1 J	**11.0 J**	**3.1 J**	< 5.0	< 2.0	0.88 J	< 20.0	< 100	**3,100**	190	220	0.96	360
	2002 02 (Summer)		< 50.0	**8.3**	**760**	< 2.0	0.27 J	1.8 J	**13.0**	1.8 J	< 3.0	**4,600**	0.044 J	< 20.0	**14.0 J**	**5.0 J**	< 5.0	< 2.0	1.2 J	< 20.0	< 100	**1,900**	200	220	0.91	360
MW360-3	2006 01 (Spring)		< 1.0	**9.6**	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	**21.0**	< 5.0	**2.5 J**	< 5.0	-	9.8 J	-	-	-	-	-	-
	2005 02 (Summer)		0.81 J	**10.0**	45.0	< 2.0	< 5.0	< 10.0	4.3	**3.7 J**	< 3.0	**1,200**	**0.13 J**	**37.0**	**21.0**	**4.5 J**	< 5.0	< 5.0	6.6 J	**12.0 J**	< 100	36.0 J	19.0	17.0	12.0 J	220
	2005 01 (Spring)		0.56 J	4.1 J	**130**	< 2.0	< 5.0	< 10.0	3.8	**8.1 J**	< 3.0	**2,300**	< 0.20	**6.5 J**	**24.0**	< 5.0	< 5.0	**4.2 J**	3.6 J	**17.0 J**	< 100	< 100	49.0	55.0	10.0	360
	2004 04 (Winter)		0.19 J	**10.0**	51.0	< 2.0	< 5.0	< 10.0	4.1	**4.6 J**	< 3.0	**1,300**	< 0.20	**23.0**	**17.0 J**	< 5.0	< 5.0	< 5.0	5.9 J	< 20.0	< 100	35.0 J	24.0	21.0	13.0	260
	2004 02 (Summer)		0.28 J	**8.5**	57.0	< 1.0	< 1.0	0.93 J	**5.0**	2.4	0.32 J	**1,300**	< 0.20	**35.0**	**23.0**	< 5.0	< 1.0	< 1.0	8.2 J	6.6 J	< 50.0	47.0 J	27.0	20.0	13.0	270
	2004 01 (Spring)		< 5.0	< 50.0	**155**	< 4.0	< 5.0	< 10.0	**8.9 J**	5.3 J	< 10.0	**3,370**	< 0.40	**14.2 J**	**31.7**	**5.0 J**	< 10.0	< 5.0	**9.0 J**	< 21.6	< 200	< 100	69.9	72.2	19.0	460
	2003 04 (Winter)		< 5.0	**12.5 J**	52.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,410**	< 0.40	**38.3 J**	**27.0**	**5.0 J**	< 10.0	< 5.0	**10.6 J**	< 20.0	< 200	< 100	26.6	22.1	16.2	296
	2003 03 (Fall)		< 5.0	**9.9 J**	60.9 J	< 4.0	< 5.0	1.3 J	**6.2 J**	1.4 J	< 10.0	**1,600 J**	< 0.40	**37.1 J**	**28.3 J**	< 20.0	< 10.0	< 5.0	7.6 J	< 20.0	< 200	47.4 J	27.1 J	23.3 J	22.5	273
	2003 02 (Summer)		< 50.0	7.8 J	59.7 J	< 4.0	< 5.0	< 10.0	**4.8 J**	< 10.0	< 10.0	**1,510**	< 0.40	**29.8 J**	**26.4**	< 20.0	< 10.0	< 5.0	7.1 J	< 20.0	< 200	< 100	27.8 J	24.1	11.2 J	252 J
	2003 01 (Spring)		< 1.0	5.8	93.0	< 2.0	< 5.0	< 10.0	**4.8 J**	2.8 J	< 3.0	**1,700**	< 0.20	**20.0 J**	**25.0**	< 5.0	< 5.0	< 1.0	7.8 J	8.9 J	5.3 J	150	33.0	34.0	13.0	310
	2002 04 (Winter)		< 50.0	7.4	55.0	< 2.0	0.054 J	< 10.0	**5.1 J**	2.8 J	< 3.0	**3,200**	< 0.26	**25.0 J**	**22.0**	0.80 J	< 5.0	< 2.0	8.4 J	< 20.0 UJ	< 100	120	58.0	54.0	13.0	620
	2002 03 (Fall)		0.20 J	7.8	44.0	< 2.0	< 5.0	0.74 J	**5.1 J**	2.0 J	< 3.0	**1,200**	< 0.20	**26.0**	**22.0**	< 5.0	< 5.0	< 2.0	8.4 J	< 20.0	< 100	62.0 J	20.0	17.0	13.0	240
	2002 02 (Summer)		< 50.0	7.5	53.0	< 2.0	< 5.0	**3.6 J**	< 10.0	3.7 J	< 3.0	1,100	0.044 J	**25.0**	**24.0**	0.54 J	< 5.0	< 2.0	**10.0 J**	2.3 J	34.0 J	79.0 J	24.0	19.0	12.0	250
MW360-4	2006 01 (Spring)		< 1.0	5.4	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.15 J	-	< 0.20	-	2.7 J	< 5.0	**2.4 J**	**3.5 J**	-	8.1 J	-	-	-	-	-	-
	2005 02 (Summer)		0.34 J	5.4	28.0	< 2.0	< 5.0	< 10.0	0.18 J	< 10.0	< 3.0	390	< 0.20	**31.0**	3.5 J	< 5.0	< 5.0	< 5.0	4.1 J	6.4 J	< 100	< 100	13.0	12.0	5.8 J	120
	2005 01 (Spring)		< 1.0	2.6 J	33.0	< 2.0	< 5.0	< 10.0	0.14 J	1.2 J	< 3.0	150	< 0.20	**21.0**	3.8 J	< 5.0	< 5.0	**6.6**	3.7 J	5.9 J	< 100	< 100	12.0	13.0	2.9	170
	2004 04 (Winter)		0.11 J	5.8	30.0	< 2.0	< 5.0	< 10.0	0.27 J	< 10.0	< 3.0	270	< 0.20	**33.0**	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	22.0 J	14.0	13.0	4.6	120
	2004 02 (Summer)		0.16 J	4.8	31.0	< 1.0	< 1.0	0.18 J	0.22 J	1.1	0.083 J	280	< 0.20	**33.0**	3.3	< 5.0	< 1.0	< 1.0	4.2 J	10.0 J	6.1 J	83.0 J	13.0	11.0	5.7	120
	2004 01 (Spring)		< 5.0	< 50.0	38.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	191	< 0.40	**19.6 J**	< 20.0	< 20.0	< 10.0	< 5.0	**9.4 J**	8.6 J	< 200	< 100	14.0	14.4	4.5	186
	2003 04 (Winter)		< 5.0 UJ	4.8 J	29.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	174	< 0.40	**38.8 J**	< 20.0	< 20.0	< 10.0	< 5.0 UJ	6.0 J	< 20.0	< 200	42.3 J	15.4	12.4	6.7	82.9
	2003 03 (Fall)		< 5.0	< 50.0	39.2 J	< 4.0	< 5.0	< 10.0	< 10.0	1.2 J	< 10.0	293 J	< 0.40	**24.3 J**	**9.9 J**	< 20.0	< 10.0	< 5.0	5.5 J	< 20.0	< 200	40.3 J	12.4 J	13.9 J	4.0	162
	2003 02 (Summer)		< 50.0	< 50.0	34.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	**2.4 J**	230	< 0.40	**30.7 J**	5.4 J	< 20.0	< 10.0	< 5.0	4.0 J	< 20.0	< 200	< 100	13.0	12.9	4.5 J	126
	2003 01 (Spring)		< 1.0	3.7 J	40.0	< 2.0	< 5.0	< 10.0	< 10.0	1.9 J	< 3.0	95.0	< 0.20	**21.0**	3.9 J	< 5.0	< 5.0	< 1.0	5.2 J	**11.0 J**	9.8 J	66.0 J	13.0	13.0	3.6	170
	2002 04 (Winter)		0.11 J	3.9 J	< 36.0	< 2.0	< 5.0	< 10.0	0.25 J	0.86 J	< 3.0	220	< 0.20	**36.0**	3.5 J	< 5.0	< 5.0	< 2.0	5.1 J	1.0 J	9.4 J	< 100	12.0	11.0	4.4	160
	2002 03 (Fall)		0.11 J	7.8	24.0	< 2.0	< 5.0	0.16 J	0.24 J	0.62 J	< 3.0	250	< 0.20	**80.0**	2.8 J	< 5.0	< 5.0	< 2.0	6.3 J	2.5 J	44.0 J	78.0 J	9.9	8.6	6.1	79.0
	2002 02 (Summer)		< 50.0	5.0 J	35.0	< 2.0	< 5.0	1.7 J	< 10.0	1.2 J	< 3.0	74.0	< 0.20	**38.0**	3.4 J	< 5.0	< 5.0	< 2.0	5.8 J	2.8 J	40.0 J	52.0 J	13.0	12.0	4.2	140
MW97-3	2006 01 (Spring)		0.60 J	2.0 J	-	< 2.0	0.37 J	< 10.0	-	**14.0**	0.19 J	-	< 0.20	-	**14.0 J**	< 5.0	0.12 J	< 5.0	-	**20.0**	-	-	-	-	-	-
	2005 02 (Summer)		0.49 J	2.3 J	76.0	< 2.0	< 5.0	0.67 J	0.60 J	**10.0**	< 3.0	110	< 0.20	< 20.0	**10.0 J**	< 5.0	< 5.0	**2.1 J**	2.7 J	6.3 J	< 100	< 100	70.0	16.0	6.9	18.0
	2005 01 (Spring)		0.31 J	< 5.0	85.0	< 2.0	< 5.0	< 10.0	0.72 J	**9.7 J**	< 3.0	180	< 0.20	3.2 J	**15.0 J**	< 5.0	< 5.0	< 5.0	1.9 J	5.8 J	< 100	< 100	81.0	19.0	7.1	21.0
	2004 04 (Winter)		0.27 J	< 5.0	100	< 2.0	< 5.0	< 10.0	1.0	**8.6 J**	< 3.0	270	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.7 J	**11.0 J**	< 100	< 100	100	23.0	9.7	27.0
	2004 02 (Summer)		1.5	2.5	120	< 1.0	< 1.0	< 1.0	2.1	**9.8**	0.10 J	700	< 0.20	3.2 J	**17.0 J**	0.63 J	< 1.0	< 1.0	< 1.8	**12.0**	4.5 J	< 100	130 J	28.0	12.0	30.0
	2004 01 (Spring)		< 5.0	< 50.0	**124**	< 4.0	< 5.0	< 10.0	**6.1 J**	**11.3**	< 10.0	380	< 0.40	< 50.0	**25.1**	< 20.0	< 10.0	< 5.0	6.6 J	7.4 J	< 200	< 100	129	28.2	11.6 J	26.8
	2003 04 (Winter)		< 5.0 UJ	< 50.0	117	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	709	< 0.40	< 50.0	**18.5 J**	< 20.0	< 10.0	2.1 J	< 50.0	< 20.0	< 200	87.5 J	117	25.4	< 11.7	27.0

FWBZ

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	MW97-3	2003 03 (Fall)	< 5.0	< 50.0	99.1 J	< 4.0	< 5.0	< 10.0	< 10.0	6.2 J	< 10.0	621 J	< 0.40	< 50.0	**12.0 J**	< 20.0	< 10.0	< 5.0	1.7 J	< 20.0	< 200	112	100 J	23.3 J	12.8	29.0
		2003 02 (Summer)	< 50.0	< 50.0	**130**	< 4.0	< 5.0	< 10.0	< 10.0	**7.6 J**	< 10.0	812	< 0.40	< 50.0	**16.5 J**	< 20.0	< 10.0	< 5.0	1.8 J	< 20.0	< 200	229	124	31.0	16.7	41.2 J
		2003 01 (Spring)	0.30 J	4.1 J	93.0	< 2.0	< 5.0	< 10.0	< 10.0	5.4 J	< 3.0	510	< 0.20	4.0 J	**11.0 J**	< 5.0	< 5.0	< 1.0	1.8 J	2.8 J	3.0 J	390	87.0	18.0	12.0	17.0
		2002 04 (Winter)	0.18 J	4.5 J	85.0	< 2.0	< 5.0	< 10.0	0.46 J	4.2 J	< 3.0	490	< 0.20	< 20.0	**8.4 J**	< 5.0	< 5.0	< 2.0	1.6 J	< 20.0	8.9 J	470	82.0	18.0	13.0	35.0
		2002 03 (Fall)	0.34 J	4.5 J	72.0	0.079 J	0.071 J	< 10.0	0.42 J	5.7 J	< 3.0	350	< 0.20	3.0 J	7.0 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	230	75.0	20.0	12.0	29.0
		2002 02 (Summer)	0.21 J	4.4 J	96.0	< 2.0	0.055 J	3.0 J	0.45 J	6.0 J	< 3.0 UJ	480	< 0.20	2.6 J	**8.6 J**	-	< 5.0	< 2.0 UJ	2.8 J	< 20.0	**210**	390	97.0	25.0	16.0	52.0
	OU2B-MW01	2006 02 (Summer)	< 1.0	6.8	99.0	< 2.0	< 5.0	< 10.0	0.30 J	< 10.0	**29.0**	**5,600**	< 0.20	< 20.0	< 20.0	< 5.0	1.6 J	< 5.0	< 10.0	< 20.0	< 100	**58,000**	100	100	29.0	740
		2006 01 (Spring)	< 1.0	5.4	32.0	0.27 J	< 5.0	1.6 J	< 1.0	< 10.0	**33.0**	**3,000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**31,000**	53.0	52.0	17.0	240
	OU2B-MW02	2006 02 (Summer)	< 1.0	0.55 J	31.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	**29.0**	400	< 0.20	< 20.0	< 20.0	< 5.0	**4.3 J**	< 5.0	< 10.0	< 20.0	< 100	550	190	580	180	4,800
		2006 01 (Spring)	0.15 J	3.0 J	27.0	0.75 J	< 5.0	2.1 J	< 1.0	< 10.0	**39.0**	**1,200**	< 0.20	< 20.0	< 20.0	< 5.0	**2.7 J**	**3.0 J**	< 10.0	< 20.0	46.0 J	**2,500**	93.0	320	120	3,000
	OU2B-MW03	2006 02 (Summer)	< 1.0	0.70 J	**250**	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	**4.3**	350	< 0.20	< 20.0	< 20.0	< 5.0	**4.1 J**	< 5.0	< 10.0	< 20.0	< 100	**1,900**	260	610	170	4,600
		2006 01 (Spring)	< 1.0	3.1 J	120	0.27 J	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	110	< 0.20	3.0 J	< 20.0	< 5.0	< 5.0	2.1 J	< 10.0	< 20.0	< 100 UJ	1,400	40.0	75.0	38.0	830
	OU2B-MW04	2006 02 (Summer)	< 1.0	0.58 J	**400**	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	**3.8**	51.0	< 0.20	< 20.0	< 20.0	< 5.0	**2.9 J**	< 5.0	< 10.0	8.9 J	< 100	< 100	150	250	100	2,000
		2006 01 (Spring)	0.19 J	1.5 J	21.0	< 2.0	< 5.0	< 10.0	0.32 J	< 10.0	< 3.0	6.5 J	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	1.3 J	< 10.0	< 20.0	< 100 UJ	< 100	10.0	17.0	17.0	420
	OU2B-MW05	2006 02 (Summer)	< 1.0	3.1 J	**160**	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	0.54 J	960	< 0.20	< 20.0	< 20.0	< 5.0	**3.6 J**	< 5.0	< 10.0	< 20.0	< 100	1,400	170	320	110	3,300
		2006 01 (Spring)	< 1.0	5.1	**170**	0.45 J	< 5.0	0.59 J	< 1.0	< 10.0	< 3.0	1,100	< 0.20	3.3 J	< 20.0	< 5.0	**3.1 J**	**3.9 J**	< 10.0	7.2 J	< 100	1,600	200	390	-	3,300
	WA-8	2005 02 (Summer)	0.48 J	3.5 J	**160**	< 2.0	< 5.0	1.0 J	0.30 J	0.81 J	< 3.0	1,100	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	0.95 J	8.8 J	< 100	**3,700**	53.0	39.0	35.0	520
		2004 04 (Winter)	0.23 J	6.4	**140**	< 2.0	< 5.0	1.6 J	0.48 J	< 10.0	< 3.0	1,000	< 0.20	2.1 J	3.1 J	< 5.0	< 5.0	< 5.0	1.2 J	8.1 J	< 100	**3,300**	44.0	36.0	31.0	550
		2004 02 (Summer)	0.16 J	4.0	**190**	< 1.0	< 1.0	1.3	0.40 J	0.32 J	0.077 J	**1,300**	< 0.20	< 5.0	2.2	0.60 J	< 1.0	< 1.0	1.6	0.84 J	< 50.0	**4,000**	65.0	49.0	38.0	590
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**172**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	**2.8 J**	**1,220**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**3,250**	58.3	44.9	< 38.2	630
		2003 02 (Summer)	< 50.0	6.7 J	**146**	< 4.0	< 5.0	< 10.0	2.0 J	< 10.0	< 10.0	**1,200**	< 0.40 UJ	< 50.0	2.4 J	< 20.0	< 10.0	< 5.0	< 50.0	9.7 J	< 200	**3,670**	60.2	39.9	23.0 J	359
		2002 04 (Winter)	< 50.0	5.7	**170**	< 2.0	< 5.0	< 10.0	0.50 J	0.62 J	< 3.0	750	< 0.20	2.3 J	2.4 J	1.5 J	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	**2,200**	53.0	43.0	34.0	500
		2002 02 (Summer)	0.55 J	**11.0**	**210 J**	< 2.0	< 5.0	< 10.0	0.34 J	0.67 J	0.064 J	**1,400 J**	< 0.20	1.9 J	2.0 J	1.5 J	< 5.0	< 2.0	< 10.0	1.3 J	**970 J**	**4,000**	83.0	60.0 J	32.0	530
SWBZ	D03-01	2006 01 (Spring)	0.15 J	4.5 J	-	< 2.0	< 5.0	**6.6 J**	-	< 10.0	< 3.0	-	< 0.20	-	**36.0**	**4.6 J**	**4.9 J**	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.33 J	5.5	59.0	< 2.0	< 5.0	3.1 J	**23.0**	1.1 J	< 3.0	**16,000**	< 0.20	< 20.0	**34.0**	**10.0**	**4.3 J**	< 5.0	< 10.0	< 20.0	< 100	530	**610**	1,400	220	8,400
		2004 04 (Winter)	0.19 J	< 5.0	67.0	< 2.0	< 5.0	2.0 J	**28.0**	< 10.0	< 3.0	**15,000**	< 0.20	< 20.0	**42.0 J**	**4.8 J**	< 5.0	**15.0**	1.0 J	**15.0 J**	< 100	380	**590**	1,300	220	8,700
		2004 02 (Summer)	4.3	5.5	63.0	< 1.0	0.71 J	2.3 J	**28.0**	**10.0**	0.32 J	**16,000**	< 0.20	1.1 J	**46.0**	< 5.0	< 1.0	< 5.0	2.4 J	< 1.0	< 50.0	**1,900**	**720**	1,600	260	11,000
		2003 04 (Winter)	< 5.0 UJ	**76.0**	61.0 J	< 4.0	< 5.0	< 10.0	< 26.2	< 10.0	**7.3 J**	**13,500**	< 0.40	**30.5 J**	**32.0**	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	575	**697**	1,480	346	10,000
		2003 02 (Summer)	< 50.0	< 50.0	69.9 J	< 4.0	0.58 J	< 10.0	**29.5**	< 10.0	< 10.0	**15,700**	< 0.40 UJ	< 50.0	**38.8**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	701	**669**	1,460	236 J	8,290
		2002 04 (Winter)	0.21 J	**15.0**	< 80.0	0.030 J	< 5.0	< 10.0	**23.0 J**	6.1 J	< 3.0	**16,000**	< 0.20	< 20.0	**34.0 J**	**57.0**	< 5.0	< 2.0	0.72 J	< 20.0	5.6 J	**2,600**	**640**	1,500	240 J	9,900
		2002 02 (Summer)	< 50.0	< 5.0	63.0	< 2.0	**2.8 J**	**6.1 J**	**35.0**	**12.0**	< 3.0 UJ	**13,000**	< 0.20	1.2 J	< 55.0	-	**1.7 J**	1.8 J	4.2 J	< 20.0	**1,100**	**2,000**	**660**	1,500	230	9,800
	D03-02	2006 01 (Spring)	0.33 J	7.0	39.0	< 2.0	< 5.0	2.0 J	**18.0**	< 10.0	**6.0**	**15,000**	< 0.20	< 20.0	**28.0**	< 5.0	**2.5 J**	< 5.0	< 10.0	< 20.0	< 100	850	**710**	1,800	420	15,000
	D03-03	2006 01 (Spring)	0.11 J	< 5.0	64.0	< 2.0	**2.2 J**	**21,000**	**220**	< 10.0	< 3.0	**33,000**	< 0.20	1.9 J	**39,000**	**4.0 J**	**6.7**	< 5.0	**35.0**	**85.0**	**510**	**260,000**	**730**	1,100	25.0	6,100
	D03-04	2006 01 (Spring)	< 1.0	2.7 J	30.0	< 2.0	< 5.0	< 10.0	3.7	< 10.0	< 3.0	**4,900**	**0.12 J**	**77.0**	**8.1 J**	< 5.0	**5.6**	**6.7**	< 10.0	9.3 J	< 100	< 100	**410**	490	11.0	3,200
	D04-01	2006 01 (Spring)	0.12 J	7.4	-	< 2.0	< 5.0	**6.5 J**	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	**12.0**	**9.3**	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	1.4	**9.9**	46.0	< 2.0	0.52 J	< 10.0	1.6	< 10.0	< 3.0	**31,000**	< 0.20	**5.8 J**	< 20.0	**11.0**	< 5.0	< 5.0	< 10.0	**15.0 J**	< 100	**7,700**	**960**	1,500	43.0 J	6,800
		2004 04 (Winter)	0.32 J	7.9	59.0	< 2.0	< 5.0	< 10.0	2.8	< 10.0	< 3.0	**26,000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	**8.4**	< 10.0	< 400	< 100	**7,800**	**1,400**	2,200	49.0	9,600
		2004 02 (Summer)	0.71 J	< 1.0	52.0	< 1.0	< 1.0	1.7	3.0	**13.0**	0.23 J	**26,000**	< 0.20	< 20.0	**16.0**	< 5.0	< 1.0	< 1.0	5.9 J	< 1.0	< 50.0	**5,900 J**	**1,400**	2,100	45.0	10,000

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5-4

Groundwater Sample Analytical Results at IR Site 3 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
D04-01	2003 04 (Winter)		< 25.0	< 50.0	39.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**24,000**	< 0.40	**29.7 J**	< 20.0	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	**5,660**	**1,390**	2,200	58.8	10,600
	2003 02 (Summer)		**18.1 J**	**10.4 J**	59.5 J	< 4.0	< 5.0	< 10.0	2.6 J	< 10.0	< 10.0	**27,200**	< 0.40	< 50.0	**12.5 J**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**8,480**	**1,580 J**	2,400	50.0 J	9,540 J
	2002 04 (Winter)		0.25 J	**19.0**	< 49.0	< 2.0	< 5.0	< 10.0	1.7 J	**9.4 J**	< 3.0	**26,000**	< 0.20	< 20.0	6.3 J	**60.0**	< 5.0	< 2.0	< 10.0	< 20.0	29.0 J	**10,000**	**1,400**	2,300	35.0 J	11,000
	2002 02 (Summer)		< 50.0	< 5.0	50.0	< 2.0	< 5.0	**3.5 J**	< 10.0	**13.0**	< 3.0 UJ	**23,000**	0.052 J	1.0 J	< 20.0	-	< 5.0	< 2.0 UJ	1.5 J	< 20.0	**1,800**	**10,000**	**1,300**	2,100	38.0	9,900
D04-02	2006 01 (Spring)		0.19 J	**17.0**	-	0.77 J	< 5.0	0.87 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	**4.7 J**	< 5.0	-	< 20.0	-	-	-	-	-	-
	2005 02 (Summer)		0.50 J	5.8	48.0	< 2.0	< 5.0	< 10.0	**5.8**	< 10.0	< 3.0	**20,000**	< 0.20	1.4 J	< 20.0	< 5.0	< 5.0	**5.6**	< 10.0	**19.0 J**	91.0 J	**8,500**	**1,100**	1,600	24.0	7,200
	2004 04 (Winter)		0.18 J	**8.5**	53.0	< 2.0	0.40 J	1.9 J	**5.5**	< 10.0	< 3.0	**18,000**	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 100	< 10.0	**15.0 J**	< 100	**8,000**	**1,200**	1,600	24.0	9,000
	2004 02 (Summer)		0.99 J	< 1.0	61.0	< 1.0	< 1.0	1.6	**6.6**	**16.0**	0.86 J	**20,000**	< 0.20	3.2 J	**21.0**	< 5.0	< 1.0	< 1.0	4.3 J	< 1.0	0.73 J	**8,500 J**	**1,500**	2,000	28.0	10,000
	2003 04 (Winter)		< 10.0 UJ	< 50.0 UJ	46.3 J	< 4.0	< 5.0	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0 UJ	**14,900**	-	**23.8 J**	< 20.0 UJ	< 20.0 UJ	< 10.0	-	< 50.0	< 20.0	< 200	**5,590 J**	**1,610**	2,120	32.6	9,600
	2003 02 (Summer)		< 50.0	**8.3 J**	54.6 J	< 4.0	< 5.0	< 10.0	2.7 J	< 10.0	< 10.0	**19,400**	< 0.40	< 50.0	2.2 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**8,570**	**1,560**	2,080	84.6 J	8,290
	2002 04 (Winter)		0.18 J	**20.0**	58.0	< 2.0	0.055 J	< 10.0	2.4 J	**8.2 J**	< 3.0	**17,000**	< 0.20	< 20.0	6.9 J	**78.0**	< 5.0	< 2.0	< 10.0	< 20.0	27.0 J	**15,000**	**1,400**	2,000	26.0 J	9,200
	2002 02 (Summer)		< 50.0	< 5.0	53.0	< 2.0	< 5.0	3.1 J	< 10.0	**10.0 J**	< 3.0	**16,000**	< 0.20	1.3 J	< 20.0	-	< 5.0	< 2.0 UJ	1.4 J	< 20.0	**1,800**	**11,000**	**1,400**	1,900	23.0	8,800
D04-03	2006 01 (Spring)		0.17 J	**15.0**	-	0.81 J	< 5.0	2.9 J	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	**17.0**	**9.0**	< 5.0	-	< 20.0	-	-	-	-	-	-
SWBZ	2005 02 (Summer)		0.61 J	< 5.0	42.0	< 2.0	0.43 J	< 10.0	1.7	< 10.0	< 3.0	**30,000**	< 0.20	1.5 J	< 20.0	< 500	< 5.0	< 5.0	< 10.0	**16.0 J**	< 100	**12,000**	**990**	1,800	87.0	12,000
	2004 04 (Winter)		0.45 J	3.0 J	48.0	< 2.0	< 5.0	< 10.0	2.5	< 10.0	**100 J**	**28,000**	< 0.20	**12.0 J**	< 20.0	< 5.0	< 5.0	**5.1**	< 10.0	< 20.0	< 100	**13,000**	120	24.0	110	50.0
	2004 02 (Summer)		0.90 J	< 5.0	45.0	< 1.0	< 5.0	1.8 J	1.6	**25.0**	**1.4**	**29,000**	0.062 J	0.99 J	**18.0**	< 5.0	< 1.0	< 5.0	< 10.0	< 1.0	< 50.0	**17,000**	**1,100**	2,400	98.0	17,000
	2003 04 (Winter)		< 25.0 UJ	< 50.0	34.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**21,700**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**10,400**	**1,150**	2,290	132	15,300
	2003 02 (Summer)		**15.2 J**	**14.3 J**	54.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**31,900**	< 0.40	< 50.0	1.3 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**16,300**	**1,480 J**	2,890	126 J	15,200 J
	2002 04 (Winter)		0.22 J	**18.0**	< 42.0	0.039 J	< 5.0	< 10.0	1.4 J	**11.0**	< 3.0	**26,000**	< 0.23	< 20.0	5.2 J	**54.0**	< 5.0	< 2.0	< 10.0	< 20.0	5.8 J	**17,000**	**1,100**	2,300	87.0 J	15,000
	2002 02 (Summer)		< 50.0	< 5.0	45.0	< 2.0	< 5.0	3.1 J	< 10.0	**20.0**	< 3.0 UJ	**25,000**	< 0.20	1.3 J	< 20.0	-	< 5.0	< 2.0 UJ	0.98 J	< 20.0	**1,700**	**17,000**	**1,200**	2,600	87.0	17,000
D11-01	2006 01 (Spring)		0.17 J	**19.0**	-	0.65 J	**13.0**	3.2 J	-	2.1 J	**3.2**	-	< 0.20	-	**30.0**	**5.0**	**8.1**	**4.6 J**	-	**26.0 J**	-	-	-	-	-	-
	2005 02 (Summer)		0.91 J	< 5.0	44.0	< 2.0	0.90 J	< 10.0	**31.0**	< 10.0	< 3.0	**23,000**	< 0.20	1.6 J	**31.0**	< 5.0	< 5.0	< 5.0	1.3 J	**27.0**	**110**	260	**680**	1,200	43.0	9,200
	2004 04 (Winter)		0.32 J	< 5.0	57.0	< 2.0	< 5.0	< 10.0	**28.0**	< 10.0	< 3.0	**23,000**	< 0.20	< 20.0	**17.0 J**	< 5.0	< 5.0	**10.0**	3.4 J	< 20.0	9.0 J	1,100	**860**	1,500	39.0	12,000
	2004 02 (Summer)		0.56 J	< 8.1	44.0	0.33 J	< 5.0	1.2 J	**33.0**	< 10.0	0.18 J	**24,000**	< 0.20	< 20.0	**35.0**	< 5.0	< 5.0	< 1.0	< 10.0	**21.0**	< 50.0	340	**980**	1,800	42.0	13,000
	2003 04 (Winter)		< 5.0	< 50.0	46.1 J	< 4.0	< 5.0	< 10.0	**27.1**	< 10.0	< 10.0	**22,200**	< 0.40	**22.0 J**	**32.8**	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	661	**991**	1,770	58.3	13,200
	2003 02 (Summer)		< 50.0	**10.7 J**	58.4 J	< 4.0	0.91 J	< 10.0	**31.0**	< 10.0	< 10.0	**20,800**	< 0.40	< 50.0	**29.3**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	793	**793**	1,470	63.4 J	8,420
	2002 04 (Winter)		0.27 J	**10.0**	53.0	0.051 J	0.63 J	< 10.0	**28.0 J**	6.4 J	< 3.0	**25,000**	< 0.24	< 20.0	**27.0 J**	**43.0**	< 5.0	< 2.7	2.4 J	**15.0 J**	8.0 J	1,500	**870**	1,900	36.0 J	14,000
	2002 02 (Summer)		< 50.0	**14.0**	42.0	< 2.0	< 5.0	**12.0**	**32.0**	< 10.0	< 3.0	**21,000**	< 0.20	< 20.0	< 20.0	**63.0 J**	< 5.0	0.25 J	< 10.0	< 20.0	< 100	110	**830**	1,500	33.0	11,000

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 5-5
Groundwater Sampling Field Parameters at IR Site 3 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	37-MJ-MW1	09/15/05	6.54	4.35	-102
		03/14/05	6.24	1.16	-82
		12/01/04	6.95	0.56	59
		07/02/04	6.56	1.56	7.0
		03/04/04	6.64	1.92	86
		12/12/03	7.29	0.49	166
		09/17/03	7.09	0.57	-46
		06/26/03	7.23	0.53	63
		04/11/03	7.20	0.46	143
		12/10/02	***8.68***	0.79	-107
		09/06/02	6.97	***18.50***	-118.1
		06/25/02	7.00	5.49	-105.7
First	372-MW1	04/25/06	7.38	1.51	50
		09/16/05	6.77	1.39	77
		12/03/04	7.14	1.68	211
		07/01/04	7.51	0.35	98
		12/15/03	7.60	3.30	91.6
		07/07/03	7.84	0.44	-102
		04/14/03	7.32	2.60	241
		07/11/02	7.29	1.02	0.0
First	398-MW4	04/25/06	7.09	0.76	-244
		09/15/05	7.89	0.88	-194
		03/14/05	7.16	0.46	-205
		12/02/04	7.17	0.14	51
		07/02/04	6.88	0.31	-15
		03/04/04	7.15	0.13	49
		12/12/03	7.11	0.30	-65
		09/17/03	7.19	0.34	-31
		06/26/03	7.69	0.16	77
		04/11/03	7.30	1.90	-146
		12/10/02	***8.87***	0.00	-153
		09/06/02	7.18	3.50	-151
		06/20/02	7.17	***15.10***	-124.9
First	M03-04	04/26/06	6.59	0.17	-197
		09/15/05	7.47	0.80	-185
		03/14/05	7.04	6.35	-197
		12/02/04	6.88	0.17	-18
		07/01/04	6.78	0.29	-21
		03/04/04	6.89	0.14	-289
		12/12/03	6.99	0.72	-169.2
		09/17/03	6.89	0.21	-101
		06/26/03	7.51	0.08	-17
		04/14/03	7.10	0.40	-58
		12/10/02	6.54	7.64	-157.6
		09/06/02	6.77	5.90	-151
		06/20/02	6.83	6.00	-136.5
First	M03-05	04/26/06	6.61	0.62	-82

Table 5-5
Groundwater Sampling Field Parameters at IR Site 3 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M03-05	09/15/05	6.50	0.73	-238
		12/02/04	7.39	0.33	-24
		07/01/04	7.28	2.30	15
		12/12/03	7.81	0.28	56
		06/26/03	7.44	0.32	-163
		12/09/02	7.07	8.66	-169.5
		07/03/02	***5.85***	1.10	-117
First	M03-06	04/26/06	8.04	0.99	-229
		09/15/05	***9.03***	0.93	-234
		03/14/05	***8.54***	0.04	-277
		12/02/04	7.77	0.37	5.0
		07/02/04	7.91	2.40	105
		03/04/04	8.07	0.25	-36
		12/12/03	***8.53***	0.16	53
		09/18/03	8.12	0.16	-2.0
		06/26/03	8.29	0.18	-145
		04/11/03	***9.66***	0.19	120
		12/11/02	7.62	***36.94***	-184.2
		09/06/02	8.22	0.40	-148.3
		07/03/02	***4.30***	1.60	-43
First	M03-07	04/26/06	6.68	0.64	-199
		09/19/05	6.36	4.26	-156
		12/02/04	6.61	0.43	-32
		07/02/04	6.50	0.21	-23
		12/12/03	6.92	0.15	-103
		06/26/03	7.50	0.11	-44
		12/11/02	6.34	***13.16***	-186.4
		06/20/02	6.85	0.70	-150.3
First	M03-09	04/26/06	5.86	0.45	36
		09/15/05	6.53	0.71	-46
		03/14/05	6.16	0.00	8.0
		12/02/04	***5.94***	0.23	266
		07/01/04	***5.99***	0.24	70
		03/04/04	***5.94***	0.10	-282
		12/12/03	***5.98***	0.30	60
		09/17/03	6.12	0.14	-283
		06/25/03	6.13	0.13	-178
		04/11/03	6.10	1.90	-218
		12/13/02	***3.90***	***9.10***	-25.5
		09/06/02	***5.86***	4.10	-11
First	M03-10	04/26/06	8.94	0.67	-27
		09/19/05	8.29	4.88	-49
		03/15/05	8.19	0.68	-32
		12/03/04	***8.64***	1.61	201
		07/06/04	***8.67***	4.40	127
		03/05/04	***8.73***	2.51	231
		12/19/03	***8.63***	0.83	-109.1

Table 5-5
Groundwater Sampling Field Parameters at IR Site 3 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M03-10	09/18/03	***8.68***	0.25	105
		06/26/03	***9.33***	0.31	-172
		04/11/03	***8.73***	2.06	195
		12/13/02	8.17	***9.30***	35.3
		09/06/02	***8.82***	1.70	-29.2
First	M03-11	04/26/06	7.34	1.77	-52
		09/15/05	8.28	1.00	-196
		03/15/05	7.67	0.46	-171
		12/03/04	8.08	0.28	-27
		07/06/04	7.48	3.64	-66
		03/04/04	7.57	2.88	213
		12/12/03	7.58	0.30	-18
		09/18/03	7.59	0.31	-285
		06/25/03	7.70	0.35	-337
		04/11/03	7.42	2.40	-304
		12/13/02	***5.91***	***41.17***	-322.3
		09/09/02	7.60	***22.80***	-156
First	M03-12	04/26/06	10.67	0.21	-188
		09/16/05	***10.51***	0.00	-305
		03/15/05	***10.00***	0.00	-304
		12/02/04	***10.48***	0.23	94
		07/02/04	***11.00***	0.25	-108
		03/04/04	***11.71***	0.21	143
		12/15/03	***11.59***	0.49	181
		09/19/03	***9.78***	0.35	138
		06/25/03	***9.86***	0.25	118
		04/11/03	***11.40***	3.70	-7.0
		12/13/02	7.54	***9.99***	-277.2
		09/09/02	7.34	***28.20***	79
First	M03-13	04/27/06	11.14	4.29	-75
		09/16/05	***10.03***	0.00	-80
		03/15/05	***10.49***	2.56	-138
		12/02/04	8.07	0.17	128
		07/01/04	7.81	5.03	-133
		03/04/04	8.18	6.70	260
		12/15/03	7.53	2.53	193
		09/23/03	7.34	0.30	75
		06/25/03	7.49	0.27	110
		04/11/03	7.73	***27.50***	10
		12/13/02	***5.92***	***11.72***	-239.1
		09/06/02	7.28	3.90	-40
First	M03-14	04/27/06	8.14	0.17	53
		09/15/05	7.92	4.08	-9
		03/14/05	7.79	0.00	-23
		12/01/04	***8.51***	0.15	120
		06/30/04	***8.61***	0.31	-193
First	M03-15	04/27/06	6.15	0.24	47

Table 5-5
Groundwater Sampling Field Parameters at IR Site 3 Group
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Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M03-15	09/15/05	6.15	0.04	-11
		03/15/05	**5.86**	0.00	73
		12/01/04	6.17	0.36	116
		06/30/04	6.22	0.28	-55
First	M03-16	04/27/06	6.05	0.14	-6
		09/15/05	5.67	4.23	23
		03/15/05	6.21	1.43	9.0
		12/01/04	6.27	0.24	310
		06/30/04	6.19	0.19	-8.0
First	M03-17	09/15/05	6.56	0.78	0.0
		03/16/05	6.43	0.48	-55
		12/01/04	6.27	0.40	149
		06/30/04	7.09	2.70	34
First	M04-05	04/27/06	7.24	3.59	132
		09/19/05	7.53	1.87	66
		03/14/05	7.47	1.19	31
		12/03/04	6.83	1.91	206
		07/02/04	6.86	***22.90***	226
		03/04/04	7.03	1.32	-53
		12/15/03	7.02	2.07	101.4
		09/18/03	6.99	2.82	134
		06/25/03	6.92	1.35	104
		04/14/03	6.90	***17.30***	196
		12/09/02	6.87	0.20	117
		09/09/02	7.08	***14.10***	94.7
		06/21/02	7.05	***26.20***	36.1
First	M04-06	04/27/06	5.97	1.63	100
		09/16/05	6.76	0.72	-43
		12/02/04	7.11	0.58	214
		07/02/04	6.63	0.33	159
		12/15/03	6.70	1.87	259
		06/26/03	6.74	0.77	-78
		01/08/03	7.27	0.66	-88
		06/21/02	6.75	2.27	61.9
First	M07B-01	04/27/06	6.03	3.21	-12
		09/15/05	7.52	0.00	-235
		03/16/05	7.29	1.41	-48
		12/01/04	7.08	0.38	-22
		06/30/04	8.19	2.30	88
		03/04/04	7.60	4.52	215
		12/15/03	7.53	2.36	221
		09/23/03	7.55	0.13	-52
		06/26/03	8.23	0.22	-134
		04/14/03	7.45	5.02	130
		12/09/02	7.16	5.36	-110.1
		09/06/02	7.54	3.50	-115
		06/20/02	7.58	***11.42***	-38.2

Table 5-5
Groundwater Sampling Field Parameters at IR Site 3 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M11-01	04/26/06	7.04	4.42	111
		09/15/05	7.01	0.73	-164
		03/16/05	6.42	0.55	-56
		12/01/04	6.99	0.47	-2.0
		06/30/04	7.01	0.46	-10
		03/04/04	7.13	1.14	193
		12/12/03	7.22	0.98	-46
		09/18/03	7.09	0.15	-126
		06/25/03	7.08	0.16	-221
		04/11/03	7.28	0.28	164
		12/09/02	***9.23***	0.00	-168
		09/06/02	7.07	1.60	-161.2
		06/21/02	7.24	1.40	-107
First	M11-04	04/26/06	6.83	1.09	129
		09/16/05	6.84	0.82	-81
		03/14/05	6.52	2.88	-55
		12/01/04	7.31	0.77	139
		06/30/04	7.16	1.40	53
		03/05/04	7.15	3.65	249
		12/12/03	7.22	1.04	165
		09/19/03	7.26	0.36	-41
		06/26/03	7.20	1.52	129
		04/11/03	7.36	1.68	158
		12/09/02	6.94	4.51	-62.2
		09/06/02	7.25	3.90	-104.2
		06/20/02	7.12	1.52	-52.6
First	M11-05	04/27/06	6.72	2.29	118
		09/15/05	6.75	3.93	-170
		03/14/05	6.46	0.00	-100
		12/01/04	7.33	0.17	1.0
		06/30/04	8.21	2.70	-4.0
		03/04/04	7.20	0.51	173
		12/15/03	7.49	0.23	-82
		09/19/03	7.31	0.17	-119
		06/25/03	7.58	1.60	-173
		04/11/03	7.59	0.24	127
		12/09/02	***8.93***	0.00	-183
		09/09/02	7.36	3.50	-186
		06/20/02	7.67	3.00	-150
First	M11-06	04/27/06	7.14	4.26	-78
		09/15/05	7.48	0.02	-204
		03/14/05	6.89	2.54	-19
		12/01/04	7.54	0.49	65
		06/30/04	8.24	3.80	40
		03/04/04	7.68	2.90	202
		12/12/03	7.87	1.49	210
		09/18/03	7.52	0.17	-105

Table 5-5
Groundwater Sampling Field Parameters at IR Site 3 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M11-06	06/26/03	8.26	0.24	100
		04/11/03	7.86	1.66	147
		12/09/02	***8.98***	0.00	-155
		09/09/02	7.63	***10.60***	-148
		06/20/02	7.86	1.50	-110
First	MBG-3	09/15/05	7.54	0.90	-194
		12/02/04	6.63	0.44	-28
		07/06/04	7.01	0.34	-105
		12/15/03	7.04	0.30	-14
		06/26/03	7.40	0.17	-229
		12/11/02	***9.18***	0.00	-170
		06/24/02	6.90	***-0.04***	-158.9
First	MW360-1	04/27/06	6.71	1.29	13
		09/15/05	6.52	4.94	42
		03/15/05	7.08	0.00	12
		12/03/04	7.47	0.21	82
		07/06/04	6.76	0.29	144
		03/05/04	6.90	0.20	248
		12/12/03	6.93	0.92	12.4
		09/19/03	6.86	0.20	150
		06/26/03	7.08	0.74	-131
		04/11/03	6.87	0.18	217
		12/10/02	7.30	0.00	61
		09/09/02	6.92	3.80	143.2
		06/19/02	6.92	1.64	258.5
First	MW360-2	04/27/06	6.00	0.16	125
		09/16/05	6.26	0.41	2.0
		03/15/05	6.61	0.00	-1.0
		12/03/04	6.32	0.35	83
		07/02/04	6.29	2.50	167
		03/04/04	6.41	0.57	55
		12/15/03	6.77	0.26	-2.0
		09/19/03	6.28	0.17	26
		06/26/03	6.57	0.27	-162
		04/14/03	6.42	0.73	187
		12/09/02	7.79	0.00	-73
		09/09/02	6.42	7.60	-29.2
		06/19/02	6.44	2.70	13.6
First	MW360-3	04/27/06	7.06	0.59	95
		09/19/05	7.57	0.87	-47
		03/15/05	6.92	0.00	23
		12/03/04	6.91	0.25	198
		07/02/04	6.90	0.28	-142
		03/04/04	6.75	0.45	0.0
		12/12/03	6.88	0.35	250
		09/22/03	6.95	0.30	136
		06/25/03	7.25	0.15	-130

Table 5-5
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Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MW360-3	04/14/03	7.02	0.70	202
		12/09/02	7.31	0.00	42
		09/09/02	7.06	2.90	65.6
		06/19/02	6.98	1.17	246.6
First	MW360-4	04/27/06	7.15	0.69	12
		09/19/05	6.53	4.47	62
		03/14/05	7.26	0.00	15
		12/03/04	7.70	0.18	70
		07/02/04	7.23	0.14	31
		03/05/04	7.12	0.15	215
		12/12/03	7.23	0.26	63
		09/19/03	7.13	0.12	-20
		06/26/03	NM	0.14	-50
		04/14/03	7.26	0.45	193
		12/10/02	7.23	0.00	121
		09/09/02	7.21	1.30	48.2
		06/19/02	7.16	0.71	82.6
First	MW97-3	04/27/06	6.67	1.88	97
		09/14/05	7.30	2.20	50
		03/14/05	6.85	2.90	53
		12/03/04	6.40	0.67	213
		07/06/04	7.10	0.43	-94
		03/08/04	6.52	1.51	376
		12/12/03	6.98	1.18	36.98
		09/22/03	6.74	0.26	191
		06/27/03	6.95	0.24	-212
		04/14/03	6.80	2.40	145
		12/10/02	7.92	0.00	-6.0
		09/06/02	6.89	5.50	-4.0
		07/03/02	6.33	1.90	29
First	WA-8	09/14/05	7.70	0.96	-189
		03/14/05	7.29	0.60	-189
		12/02/04	6.87	0.48	5.0
		07/07/04	6.79	0.36	-157
		03/05/04	7.11	1.32	63
		12/12/03	6.99	0.16	-58
		09/23/03	6.95	0.18	-103
		06/26/03	7.03	NM	-96
		04/14/03	7.00	2.30	-95
		12/09/02	6.60	4.19	-86.5
		09/06/02	6.86	3.10	-113
		06/20/02	6.91	8.74	-112.3
Second	D03-01	04/26/06	6.31	0.2	-127
		09/15/05	7.09	0.73	-122
		12/02/04	6.51	0.21	75
		07/01/04	6.42	0.24	21
		12/12/03	6.62	0.61	-163.6

Table 5-5
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Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D03-01	06/26/03	7.17	0.17	52
		12/10/02	6.06	***9.37***	-100
		07/03/02	6.52	0.18	71.1
Second	D03-02	04/25/06	6.56	0.42	-25
		09/14/05	7.30	1.08	-321
		03/15/05	6.01	0.28	-141
		12/01/04	6.44	0.54	71
		07/02/04	6.50	3.80	202
Second	D03-03	04/25/06	4.82	0.45	76
		09/19/05	5.60	4.92	-82
		03/14/05	6.58	0.00	-106
		12/06/04	***5.87***	0.16	46
		07/01/04	6.89	4.90	102
Second	D03-04	04/26/06	6.86	0.57	68
		09/19/05	6.65	5.00	77
		03/14/05	7.14	0.16	44
		12/06/04	7.00	0.38	237
		07/01/04	6.76	3.50	190
Second	D04-01	04/26/06	6.94	0.33	-118
		09/19/05	7.43	0.87	-134
		12/02/04	6.85	0.36	49
		07/02/04	6.16	0.32	-124
		12/12/03	6.80	0.62	22
		06/25/03	7.07	0.27	-172
		12/10/02	***8.50***	3.64	-107
		07/03/02	6.97	0.13	-105.6
Second	D04-02	04/26/06	6.83	1.46	-198
		09/16/05	7.22	1.95	-175
		12/02/04	7.39	2.72	-25
		07/02/04	7.03	4.96	-56
		12/15/03	7.14	5.37	36
		06/26/03	7.07	3.98	80
		12/10/02	***8.61***	1.74	-100
		07/03/02	6.89	0.12	-107.6
Second	D04-03	04/26/06	6.56	0.19	-135
		09/19/05	7.17	0.82	-116
		12/03/04	7.10	0.20	47
		07/01/04	6.58	3.60	122
		12/12/03	6.83	0.43	***-925***
		06/25/03	6.94	2.17	-3.0
		12/10/02	6.35	5.80	-97.8
		07/03/02	6.83	0.35	-107.2
Second	D11-01	04/26/06	6.60	0.54	-16
		09/16/05	6.51	0.45	-24
		12/01/04	6.62	0.17	169
		06/30/04	6.54	0.21	-1.0
		12/12/03	6.46	0.26	131

Table 5-5
Groundwater Sampling Field Parameters at IR Site 3 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D11-01	06/26/03	6.63	0.19	254
		12/10/02	6.12	3.98	7.6
		07/08/02	6.55	0.12	59.6

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 5-6
Groundwater Sample Analytical Results at IR Site 3 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	372-MW1	2006 01 (Spring)	< 0.0050	< 0.0050	**0.038**	< 0.050	< 0.050	**7.2**	**6.5**	**110**	**110**	< 1.0	< 1.0	< 0.040	**370**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.039**	< 0.050	< 0.050	**6.8**	**8.1**	**80.0**	**80.0**	< 1.0	< 1.0	< 0.040	**230**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.020**	< 0.050	< 0.050	**14.0**	**31.0**	**160**	**160**	< 1.0	< 1.0	< 0.040	**190**
		2004 02 (Summer)	< 0.010	< 0.010	**0.083**	**0.010 J**	< 0.050	**8.2**	**12.0**	**61.0**	**61.0**	< 1.0	< 1.0	< 0.040	**150**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.015**	**0.75 J**	< 1.0 UJ	**8.4**	**20.3**	**76.7**	**76.7**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.034**	**0.21**	< 0.10	**9.8**	**17.6**	**65.1**	-	-	-	< 1.0	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.050	< 0.050	**7.1**	**7.9**	**78.0**	**78.0**	< 1.0	< 1.0	< 0.040	-
	37-MJ-MW1	2005 02 (Summer)	< 0.0050	< 0.0050	**0.13**	< 0.050	< 0.050	**3.1**	**2.1**	**100**	**100**	< 1.0	< 1.0	< 0.040	**160**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.14 J**	< 0.050	< 0.050	**13.0**	**17.0**	**210**	**210**	< 1.0	< 1.0	< 0.040	**310**
		2004 02 (Summer)	< 0.010	< 0.010	**0.070**	< 0.050	< 0.050	**8.5**	**2.0**	**94.0**	**94.0**	< 1.0	< 1.0	< 0.040	**150**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.081**	< 0.10	< 0.10	**6.8**	**2.5**	**208**	**208**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	**0.0006 J**	< 0.0030	**0.23**	< 0.10	< 0.10	**12.0 J**	**5.5**	**79.6**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.52**	< 0.050	< 0.050	**4.4**	**1.7**	**230**	**230**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.65 J**	< 0.050	< 0.050	**4.8**	**4.6**	**120**	**120**	< 1.0	< 1.0	< 0.040	-
	398-MW4	2006 01 (Spring)	< 0.0050	< 0.0050	**2.9**	< 0.050	< 0.10	**780**	**0.16 J**	**620**	**620**	< 1.0	< 1.0	< 0.040	**1,720**
		2005 02 (Summer)	< 0.0050	< 0.0050	**3.1**	< 0.10	< 0.15	**1,100**	**0.31 J**	**830**	**830**	< 1.0	< 1.0	**0.10**	**2,680**
		2004 04 (Winter)	< 0.0050	< 0.0050	**2.2**	< 0.050	< 0.10	**640**	**1.3**	**460**	**460**	< 1.0	< 1.0	**0.16**	**1,500**
		2004 02 (Summer)	< 0.010	< 0.010	**1.5**	< 0.10	< 0.25	**1,300**	**7.2**	**820**	**820**	< 1.0	< 1.0	**0.10**	**2,710**
		2003 04 (Winter)	**0.0009 J**	< 0.0030	**0.28**	< 1.0	< 1.0	**1,090**	**15.2**	**959**	**959**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	**0.0008 J**	< 0.0030	**0.57**	< 0.10	< 1.0	**11,300**	**17.3**	**765**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**1.1**	< 0.10	< 0.10	**1,400**	**18.0**	**830**	**830**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.75**	< 0.25	< 0.25	**1,400**	**27.0**	**810**	**810**	< 1.0	< 1.0	< 0.040	-
	M03-04	2006 01 (Spring)	**0.0070**	< 0.0050	**14.0 J**	< 0.10	< 0.25	**1,600**	**0.52 J**	-	-	-	-	-	**5,000**
		2005 02 (Summer)	-	-	-	< 0.15	< 0.25	**2,200**	< 1.5	-	-	-	-	-	**5,020**
		2004 04 (Winter)	-	-	-	< 0.25	< 0.25	**2,600**	**1.5 J**	-	-	-	-	-	**4,910**
		2004 02 (Summer)	-	-	-	< 0.25	< 0.25	**2,500**	< 2.5	-	-	-	-	-	**4,640**
		2003 04 (Winter)	-	-	-	< 0.10	< 0.10	**2,230**	**2.3**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	**4.0**	-	**2,520**	**0.64**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.25	< 0.25	**3,000**	< 2.5	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.50	< 0.50	**3,100**	**38.0**	-	-	-	-	-	-
	M03-05	2006 01 (Spring)	< 0.0050	< 0.0050	**0.10 J**	**1.8**	**0.040 J**	**71.0**	**52.0**	**350**	**350**	< 1.0	< 1.0	< 0.040	**500 J**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0050**	< 2.5	< 5.0	**25,000**	**4,000**	**570**	**570**	< 1.0	< 1.0	**0.16**	**47,400**
		2004 04 (Winter)	< 0.0050	< 0.0050	**7.7**	< 0.25	< 0.25	**2,000**	**32.0**	**1,100**	**1,100**	< 1.0	< 1.0	**0.36**	**4,040**
		2004 02 (Summer)	< 0.010	< 0.010	**0.83**	< 0.25	< 0.50	**3,000**	**230**	**1,100**	**1,100**	< 1.0	< 1.0	**0.22**	**4,620**
		2003 04 (Winter)	< 0.0030	< 0.0030	**1.4**	< 1.0	< 1.0	**1,970**	**74.5**	**1,090**	**1,090**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.40**	< 0.10	< 1.0	**2,140**	**56.7**	**1,060**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.39**	< 0.25	< 0.25	**1,900**	**65.0**	**1,100**	**1,100**	< 1.0	< 1.0	**0.24**	-
		2002 02 (Summer)	< 0.010	< 0.010	**1.6**	< 0.25	< 0.25	**2,300**	**80.0**	**1,100**	**1,100**	< 1.0	< 1.0	**0.26**	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-6
Groundwater Sample Analytical Results at IR Site 3 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M03-06	2006 01 (Spring)	< 0.0050	< 0.0050	**1.9 J**	< 0.050	< 0.050	**130**	**110**	**710**	**710**	< 1.0	< 1.0	**0.61**	**1,550**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.93**	< 0.050	< 0.050	**68.0**	**57.0**	**530**	**530**	**4.0**	< 1.0	< 0.040	**1,020**
		2004 04 (Winter)	< 0.0050	< 0.0050	**1.0**	< 0.050	< 0.050	**61.0**	**57.0**	**440**	**440**	< 1.0	< 1.0	**0.34**	**920**
		2004 02 (Summer)	< 0.010	< 0.010	**0.60**	< 0.050	< 0.050	**48.0**	**62.0**	**430**	**350**	**76.0**	< 1.0	**0.30**	**1,530**
		2003 04 (Winter)	**0.0007 J**	< 0.0030	**0.34**	< 0.10	< 0.10	**79.6**	**70.6**	**1,310**	**1,310**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	**0.0006 J**	**0.0011 J**	**0.50**	< 0.10	< 0.10	**66.0 J**	**76.5**	**442**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.61**	< 0.050	< 0.050	**74.0**	**60.0**	**500**	**500**	< 1.0	< 1.0	**0.25**	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.48**	< 0.050	< 0.050	**65.0**	**71.0**	**480**	**480**	< 1.0	< 1.0	**0.38**	-
	M03-07	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**64.0**	**0.15 J**	-	-	-	-	-	-
		2005 02 (Summer)	-	-	-	**0.020 J**	< 0.050	**310**	< 0.50	-	-	-	-	-	-
		2004 04 (Winter)	-	-	-	**0.040 J**	< 0.050	**260**	< 0.50	-	-	-	-	-	-
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	**220**	< 0.50	-	-	-	-	-	-
		2003 04 (Winter)	-	-	-	< 0.10	< 0.10	**184**	< 25.0	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 1.0	**266**	< 0.50	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	**340**	**0.18 J**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	**300**	**1.1**	-	-	-	-	-	-
	M04-05	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0040 J**	**1.0**	< 0.050	**4.9**	**12.0**	**230**	**230**	< 1.0	< 1.0	< 0.040	**420**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.031**	**2.2**	< 0.050	**9.3**	**23.0**	**320**	**320**	< 1.0	< 1.0	< 0.040	**360**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.036**	**3.6**	< 0.050	**12.0**	**34.0**	**380**	**380**	< 1.0	< 1.0	< 0.040	**460**
		2004 02 (Summer)	< 0.010	< 0.010	**0.025**	**3.4**	< 0.050	**12.0**	**32.0**	**350**	**350**	< 1.0	< 1.0	< 0.040	**490**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0007 J**	**2.8 J**	< 1.0 UJ	**12.0**	**31.2**	**347**	**347**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.027**	**4.1**	< 0.10	**17.3 J**	**32.0**	**348**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.098**	**0.46**	< 0.050	**15.0**	**21.0**	**450**	**450**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.022**	**4.4**	< 0.050	**14.0**	**38.0**	**380**	**380**	< 1.0	< 1.0	< 0.040	-
	M04-06	2006 01 (Spring)	-	-	-	**3.4**	**0.030 J**	**22.0**	**110**	-	-	-	-	-	**540**
		2005 02 (Summer)	-	-	-	**1.6**	< 0.050	**19.0**	**50.0**	-	-	-	-	-	**700**
		2004 04 (Winter)	-	-	-	**7.9**	< 0.050	**41.0**	**120**	-	-	-	-	-	**840 J**
		2004 02 (Summer)	-	-	-	**2.0**	< 0.050	**25.0**	**95.0**	-	-	-	-	-	**460**
		2003 04 (Winter)	-	-	-	**6.7 J**	< 1.0 UJ	**56.9**	**143**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	**6.6**	< 0.10	**29.5**	**95.9**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	**2.1**	< 0.050	**20.0**	**87.0**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	**1.7**	< 0.050	**19.0**	**64.0**	-	-	-	-	-	-
	M07B-01	2006 01 (Spring)	-	-	-	**0.21**	< 0.050	**3.8**	**7.2**	-	-	-	-	-	**120**
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	**270**	**31.0**	-	-	-	-	-	**980**
		2004 04 (Winter)	-	-	-	< 0.050	< 0.050	**160**	**37.0**	-	-	-	-	-	**650**
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	**200**	**35.0**	-	-	-	-	-	**720**
		2003 04 (Winter)	-	-	-	< 1.0 UJ	< 1.0 UJ	**32.2**	**25.7**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 0.10	**83.7**	**29.2**	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-6
Groundwater Sample Analytical Results at IR Site 3 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07B-01	2002 04 (Winter)	-	-	-	< 0.050	< 0.050	**210**	**40.0**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	**110**	**27.0**	-	-	-	-	-	-
	M11-01	2005 02 (Summer)	< 0.0050	< 0.0050	**2.2**	**0.010 J**	< 0.050	**190**	**2.2**	**540**	**540**	< 1.0	< 1.0	< 0.040	**940**
		2004 04 (Winter)	< 0.0050	< 0.0050	**3.6**	< 0.050	< 0.050	**260**	**2.7**	**550**	**550**	< 1.0	< 1.0	< 0.040	**920 J**
		2004 02 (Summer)	< 0.010	< 0.010	**3.4**	< 0.050	< 0.050	**230**	**1.2**	**570**	**570**	< 1.0	< 1.0	< 0.040	**980**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.94**	< 0.10	< 0.10	**258**	**4.6**	**544**	**544**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**1.2**	< 0.10	< 1.0	**237**	**2.7**	**526**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**3.1**	< 0.050	< 0.050	**310**	**1.9**	**580**	**580**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**2.1**	< 0.050	< 0.050	**260**	**2.0**	**570**	**570**	< 1.0	< 1.0	< 0.040	-
	M11-04	2006 01 (Spring)	-	-	-	**0.27**	< 0.050	**6.9**	**16.0**	-	-	-	-	-	**270**
		2005 02 (Summer)	-	-	-	**0.24**	< 0.050	**9.7**	**23.0**	-	-	-	-	-	**370**
		2004 04 (Winter)	-	-	-	**0.14**	< 0.050	**8.9**	**17.0**	-	-	-	-	-	**290**
		2004 02 (Summer)	-	-	-	**0.67**	< 0.050	**15.0**	**23.0**	-	-	-	-	-	**350**
		2003 04 (Winter)	-	-	-	**4.9**	< 0.10	**32.1**	**134**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	**2.8**	< 0.10	**37.0 J**	**87.9**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	**11.0**	**39.0**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	**1.3**	< 0.050	**17.0**	**72.0**	-	-	-	-	-	-
	M11-05	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0080**	< 0.10	< 0.25	**1,600**	**210**	**200**	**200**	< 1.0	< 1.0	< 0.040	**3,130**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.042**	< 0.050	< 0.10	**700**	**97.0**	**270**	**270**	< 1.0	< 1.0	< 0.040	**1,570**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.089 J**	< 0.10	< 0.25	**2,000**	**180**	**330**	**330**	< 1.0	< 1.0	< 0.040	**3,180 J**
		2004 02 (Summer)	< 0.010	< 0.010	**0.086**	< 0.050	< 0.10	**900**	**65.0**	**320**	**320**	< 1.0	< 1.0	< 0.040	**1,740**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.064**	< 1.0 UJ	< 1.0 UJ	**1,300**	**90.7**	**386**	**386**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.091**	< 0.10	< 1.0	**1,210**	-	**353**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.083**	< 0.25	< 0.25	**3,600**	**430**	**300**	**300**	< 1.0	< 1.0	**0.040**	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.12**	< 0.050	< 0.050	**930**	**73.0**	**370**	**370**	< 1.0	< 1.0	< 0.040	-
	M11-06	2006 01 (Spring)	-	-	-	**0.95**	< 0.050	**47.0**	**32.0**	-	-	-	-	-	**390**
		2005 02 (Summer)	-	-	-	< 0.050	< 0.10	**550**	**72.0**	-	-	-	-	-	**1,240**
		2004 04 (Winter)	-	-	-	**0.030 J**	< 0.050	**340**	**47.0**	-	-	-	-	-	**900**
		2004 02 (Summer)	-	-	-	**0.050**	< 0.050	**440**	**58.0**	-	-	-	-	-	**1,060**
		2003 04 (Winter)	-	-	-	**0.22**	< 0.10	**171**	**39.6**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 1.0	**293**	**39.4**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	**240**	**22.0**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	**170**	**23.0**	-	-	-	-	-	-
	MBG-3	2005 02 (Summer)	< 0.0050	< 0.0050	**6.6**	< 0.050	< 0.050	**18.0**	**0.27 J**	**560**	**560**	< 1.0	< 1.0	**0.10**	**670**
		2004 04 (Winter)	< 0.0050	< 0.0050	**6.1**	< 0.050	< 0.050	**22.0**	**1.6**	**820**	**820**	< 1.0	< 1.0	**0.060**	**700**
		2004 02 (Summer)	< 0.010	< 0.010	**8.1**	< 0.050	< 0.050	**20.0**	**1.5**	**570**	**570**	< 1.0	< 1.0	**0.060**	**630**
		2003 04 (Winter)	< 0.0030	< 0.0030	**2.0**	< 1.0 UJ	< 1.0 UJ	**22.9**	**6.2**	**572**	**572**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**5.1**	< 0.10	< 0.10	**28.6 J**	**2.1**	**565**	-	-	-	< 1.0	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MBG-3	2002 04 (Winter)	< 0.010	< 0.010	**7.3**	< 0.050	< 0.050	**24.0**	**0.66**	**550**	**550**	< 1.0	< 1.0	**0.070**	-
		2002 02 (Summer)	< 0.010	< 0.010	**5.3**	< 0.050	< 0.050	**21.0**	< 0.50 J	**530**	**530**	< 1.0	< 1.0	< 0.040	-
	MW360-1	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**410**	**190**	-	-	-	-	-	**1,960**
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	**450**	**190**	-	-	-	-	-	**2,000**
		2004 04 (Winter)	-	-	-	**0.020 J**	< 0.050	**490**	**190**	-	-	-	-	-	**1,920**
		2004 02 (Summer)	-	-	-	**0.030 J**	< 0.050	**490**	**180**	-	-	-	-	-	**2,070**
		2003 04 (Winter)	-	-	-	**0.16**	< 0.10	**493**	**185**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	**0.24**	< 1.0	**491**	**219**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	**0.22**	< 0.10	**610**	**190**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	**0.32**	< 0.050	**630**	**210**	-	-	-	-	-	-
	MW360-2	2006 01 (Spring)	< 0.0050	< 0.0050	**0.087**	< 0.050	< 0.10	**990**	**180**	**490**	**490**	< 1.0	< 1.0	< 0.040	**2,270**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.086**	< 0.10	< 0.15	**1,100**	**180**	**490**	**490**	< 1.0	< 1.0	< 0.040	**2,240**
		2004 04 (Winter)	< 0.010	< 0.010	**4.7**	< 0.050	< 0.050	**52.0**	**5.0**	**240**	**240**	< 1.0	< 1.0	< 0.040	**320**
		2004 02 (Summer)	< 0.010	< 0.010	**0.13**	< 0.10	< 0.25	**1,100**	**150**	**430**	**430**	< 1.0	< 1.0	< 0.040	**1,980**
		2003 04 (Winter)	< 0.0030	< 0.0030	**2.1**	< 1.0 UJ	< 1.0 UJ	**12.4**	**4.0 J**	**225**	**225**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.066**	< 0.10	< 1.0	**1,180**	**171**	**403**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**4.4**	< 0.050	< 0.050	**370**	**46.0**	**300**	**300**	< 1.0	< 1.0	**0.090**	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.38**	< 0.050	< 0.050	**1,200**	**120**	**360**	**360**	< 1.0	< 1.0	< 0.040	-
	MW360-3	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**48.0**	**49.0**	-	-	-	-	-	**910**
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	**20.0**	**21.0**	-	-	-	-	-	**690**
		2004 04 (Winter)	-	-	-	**0.050**	< 0.050	**42.0**	**40.0**	-	-	-	-	-	**760**
		2004 02 (Summer)	-	-	-	< 0.050	< 0.050	**26.0**	**25.0**	-	-	-	-	-	**860**
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	**25.3**	**26.2**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 0.10	< 0.10	**40.6 J**	**28.4**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	**0.090**	< 0.050	**38.0**	**29.0**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050 J	**39.0**	**32.0**	-	-	-	-	-	-
	MW360-4	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**17.0**	**43.0**	-	-	-	-	-	**360**
		2005 02 (Summer)	-	-	-	< 0.050	< 0.050	**23.0**	**58.0**	-	-	-	-	-	**300**
		2004 04 (Winter)	-	-	-	**0.030 J**	< 0.050	**20.0**	**50.0**	-	-	-	-	-	**340**
		2004 02 (Summer)	-	-	-	**0.020 J**	< 0.050	**18.0**	**46.0**	-	-	-	-	-	**410**
		2003 04 (Winter)	-	-	-	< 1.0	< 1.0	**14.2**	**38.2**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	**0.18**	< 0.10	**33.8**	**73.2**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 0.050	< 0.050	**26.0**	**66.0**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 0.050	< 0.050	**25.0**	**61.0**	-	-	-	-	-	-
	MW97-3	2006 01 (Spring)	-	-	-	**0.27**	< 0.050	**7.8**	**24.0**	-	-	-	-	-	**370**
		2005 02 (Summer)	-	-	-	**0.26**	< 0.050	**11.0**	**30.0**	-	-	-	-	-	**330**
		2004 04 (Winter)	-	-	-	**0.63**	**0.030 J**	**15.0**	**52.0**	-	-	-	-	-	**430**
		2004 02 (Summer)	-	-	-	**2.3**	**0.020 J**	**20.0**	**68.0**	-	-	-	-	-	**420**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-6
Groundwater Sample Analytical Results at IR Site 3 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW97-3	2003 04 (Winter)	-	-	-	< 1.0	< 1.0	**34.2**	**88.4**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	**0.94 J**	< 0.10	**35.9 J**	**44.0**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	**0.14**	< 0.050	**16.0**	**29.0**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	**0.11**	< 0.050	**17.0**	**32.0**	-	-	-	-	-	-
	OU2B-MW01	2006 01 (Spring)	**0.055**	< 0.025	**10.0**	< 0.050	< 0.050	**250**	**220**	**310**	**310**	< 1.0	< 1.0	**0.21**	**900**
	OU2B-MW02	2006 01 (Spring)	-	-	-	< 0.50	< 1.0	**5,100**	**760**	-	-	-	-	-	**9,580**
	OU2B-MW03	2006 01 (Spring)	-	-	-	**0.15**	< 0.25	**1,300**	**250**	-	-	-	-	-	**2,700**
	OU2B-MW04	2006 01 (Spring)	-	-	-	< 0.050	< 0.050	**490**	**92.0**	-	-	-	-	-	**1,160**
	OU2B-MW05	2006 01 (Spring)	< 0.0050	< 0.0050	**0.11**	< 0.50	< 1.0	**5,600**	**790**	**200**	**200**	< 1.0	< 1.0	< 0.040	**10,600**
	WA-8	2005 02 (Summer)	< 0.0050	< 0.0050	**2.5**	< 0.050	< 0.050	**470**	**0.87**	**780**	**780**	< 1.0	< 1.0	< 0.040	**1,520**
		2004 04 (Winter)	< 0.0050	< 0.0050	**4.1**	< 0.050	< 0.050	**460**	**0.44 J**	**980**	**980**	< 1.0	< 1.0	**0.13**	**1,730**
		2004 02 (Summer)	< 0.010	< 0.010	**1.5**	< 0.050	< 0.050	**550**	**8.0**	**880**	**880**	< 1.0	< 1.0	< 0.040	**1,990**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.48**	< 1.0	< 1.0	**473**	< 5.0	**1,040**	**1,040**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.23**	< 0.10	< 1.0	**412**	**33.2**	**647**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.69**	< 0.10	< 0.10	**560**	**16.0**	**970**	**970**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.11**	< 0.050	< 0.050	**590**	**47.0**	**800**	**800**	< 1.0	< 1.0	< 0.040	-
SWBZ	D03-01	2006 01 (Spring)	-	-	-	< 1.0	< 2.5	**18,000**	**2,300**	-	-	-	-	-	**35,000 J**
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**19,000**	**2,300**	-	-	-	-	-	**8,000**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**20,000**	**2,300**	-	-	-	-	-	**29,600**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**19,000**	**2,200**	-	-	-	-	-	**32,900**
		2003 04 (Winter)	-	-	-	-	-	**15,600**	**1,830**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 1.0	-	**15,700**	**1,980**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 1.0	< 1.0	**19,000**	**2,200**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 1.0	< 1.0	**19,000**	**2,000**	-	-	-	-	-	-
	D04-01	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0070 J**	< 1.3	< 2.5	**21,000**	**3,100**	**260**	**260**	< 1.0	< 1.0	< 0.040	**41,600 J**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0070**	< 1.3	< 2.5	**20,000**	**3,000**	**250**	**250**	< 1.0	< 1.0	< 0.040	**37,800**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0070**	< 1.3	< 2.5	**22,000**	**3,100**	**240**	**240**	< 1.0	< 1.0	< 0.040	**33,400**
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	**21,000**	**2,900**	**230**	**230**	< 1.0	< 1.0	< 0.040	**32,500**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0042**	< 1.0	-	**17,700**	**3,070**	**242**	**242**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0047**	< 1.0	< 50.0	**22,000 J**	**2,870**	**238**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	**21,000**	**3,000**	**250**	**250**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	**21,000**	**3,000**	**250**	**250**	< 1.0	< 1.0	< 0.040	-
	D04-02	2006 01 (Spring)	< 0.0050	< 0.0050	**0.075 J**	< 1.0	< 2.5	**19,000**	**2,600**	**170**	**170**	< 1.0	< 1.0	**0.16**	**34,900**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0050**	< 1.0	< 2.5	**19,000**	**2,700**	**230**	**230**	< 1.0	< 1.0	< 0.040	**42,700**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0060**	< 1.3	< 2.5	**21,000**	**2,700**	**220**	**220**	< 1.0	< 1.0	< 0.040	**30,000**
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	**19,000**	**2,600**	**220**	**220**	< 1.0	< 1.0	< 0.040	**32,000**
		2003 04 (Winter)	< 0.0030	< 0.0030	< 0.0030	< 1.0 UJ	-	**18,700**	**3,020**	**213**	**213**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0027 J**	< 1.0	< 50.0	**20,600 J**	**2,400**	**210**	-	-	-	< 1.0	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 5-6
Groundwater Sample Analytical Results at IR Site 3 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D04-02	2002 04 (Winter)	< 0.010	< 0.010	**0.017**	< 1.0	< 1.0	**20,000**	**2,900**	**220**	**220**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	**20,000**	**2,500**	**220**	**220**	< 1.0	< 1.0	< 0.040	-
	D04-03	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0040 J**	< 2.5	< 5.0	**27,000**	**3,900**	-	-	-	-	-	**48,100**
		2005 02 (Summer)	-	-	-	< 2.5	< 5.0	**27,000**	**3,900**	-	-	-	-	-	**57,600**
		2004 04 (Winter)	-	-	-	< 2.5	< 5.0	**31,000**	**4,200**	-	-	-	-	-	**46,400**
		2004 02 (Summer)	-	-	-	< 2.5	< 5.0	**29,000**	**4,100**	-	-	-	-	-	**50,600**
		2003 04 (Winter)	-	-	-	< 1.0	-	**13,100**	**2,070**	-	-	-	-	-	-
		2003 02 (Summer)	-	-	-	< 1.0	< 200	**32,100**	**5,110**	-	-	-	-	-	-
		2002 04 (Winter)	-	-	-	< 2.5	< 2.5	**30,000**	**4,300**	-	-	-	-	-	-
		2002 02 (Summer)	-	-	-	< 1.0	< 1.0	**29,000**	**4,000**	-	-	-	-	-	-
	D11-01	2006 01 (Spring)	< 0.0050	< 0.0050	**0.022 J**	< 1.0	< 2.5	**19,000**	**5,700**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	**37,000 J**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.024**	< 1.0	< 2.5	**19,000**	**5,500**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	**44,000**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.027 J**	< 1.3	< 2.5	**21,000**	**5,900**	**1,100**	**1,100**	< 1.0	< 1.0	< 0.040	**38,500**
		2004 02 (Summer)	< 0.010	< 0.010	**0.028**	< 1.3	< 2.5	**19,000**	**5,400**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	**38,100**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.016**	< 1.0	-	**17,300**	**5,820**	**1,020**	**1,020**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.014**	< 1.0	-	**17,100**	**5,350**	**960**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.017**	< 1.0	< 1.0	**21,000**	**5,800**	**990**	**990**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.026**	< 1.0	< 1.0	**21,000**	**5,800**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 5-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 3 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 3 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	15	35	46.0	M03-12	16 Sep 2005	63000 J	M03-11	2002 04 (Winter)
Benzene (UG/L)	6	35	150	M03-04	26 Apr 2006	550	M03-04	2002 03 (Fall)
TPH-Diesel (UG/L)	15	31	17000	M03-04	26 Apr 2006	36000	M03-04	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	2	35	9.7	M03-15	15 Sep 2005	3.1 J	MW360-1	2003 01 (Spring)
TPH-Jet Fuel (UG/L)	7	31	23000	M03-04	26 Apr 2006	36000	M03-04	2005 01 (Spring)
Toluene (UG/L)	4	35	0.80 J	M03-04	26 Apr 2006	11.0 J	M03-11	2002 03 (Fall)
Trichloroethene (UG/L)	12	35	24000	M03-15	27 Apr 2006	31000	M03-15	2004 04 (Winter)
1,1-Dichloroethene (UG/L)	6	35	1900	M03-10	26 Apr 2006	3300	M03-10	2003 03 (Fall)
Ethylbenzene (UG/L)	4	35	9.9	M03-04	26 Apr 2006	150	M03-04	2002 02 (Summer)
TPH-Motor Oil (UG/L)	15	31	4500	398-MW4	25 Apr 2006	970	M11-05	2005 01 (Spring)
Bromodichloromethane (UG/L)	1	35	0.20 J	372-MW1	16 Sep 2005	0.10 J	372-MW1	2004 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	12	35	420	MW360-1	27 Apr 2006	350	MW360-1	2005 01 (Spring)
M,P-xylenes (UG/L)	3	35	25.0	M03-04	26 Apr 2006	470	M03-04	2002 02 (Summer)
TPH-Gasoline (UG/L)	10	31	3900	M03-04	26 Apr 2006	4500	M03-04	2002 02 (Summer)
Bromoform (UG/L)	2	35	0.70 J	M03-16	27 Apr 2006	--	NA	NA
O-xylene (UG/L)	1	35	0.80 J	M03-04	26 Apr 2006	22.0	M03-04	2002 02 (Summer)
trans-1,2-Dichloroethene (UG/L)	7	35	110	MW360-1	27 Apr 2006	87.0	MW360-1	2005 01 (Spring)
1,1-Dichloroethane (UG/L)	9	35	14.0 J	MW360-1	27 Apr 2006	22.0	M03-06	2002 02 (Summer)
Naphthalene (UG/L)	2	35	4.9 J	M03-04	26 Apr 2006	5.6 J	M03-04	2002 03 (Fall)
1,2-Dichloroethane (UG/L)	2	35	0.90 J	MW360-2	27 Apr 2006	4.3	M03-04	2003 02 (Summer)
Carbon Disulfide (UG/L)	10	35	1.0	M03-12	16 Sep 2005	17.0 J	M03-11	2002 03 (Fall)
Methyl tert-butyl ether (MTBE) (UG/L)	1	35	0.50 J	MW360-4	27 Apr 2006	1700	M11-04	2003 01 (Spring)
1,1,1-Trichloroethane (UG/L)	2	35	16.0 J	M03-10	19 Sep 2005	34.0	M03-10	2002 03 (Fall)
Chlorobenzene (UG/L)	2	35	1.3	MW360-4	19 Sep 2005	2.0	MW360-4	2002 03 (Fall)
1,2-Dichlorobenzene (UG/L)	4	35	220	MW360-1	27 Apr 2006	260	MW360-1	2004 02 (Summer)
Chloroethane (UG/L)	2	35	48.0	M03-06	16 Sep 2005	67.0 J	M03-06	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 5-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 3 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 3 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Vinyl Chloride (UG/L)	6	35	2.8	M11-06	15 Sep 2005	14.0	M03-10	2002 04 (Winter)
1,3-Dichlorobenzene (UG/L)	1	35	5.4 J	MW360-1	27 Apr 2006	6.3	MW360-1	2004 02 (Summer)
Chloroform (UG/L)	3	35	25.0	372-MW1	25 Apr 2006	20.0	372-MW1	2003 04 (Winter)
1,4-Dichlorobenzene (UG/L)	3	35	56.0	MW360-1	19 Sep 2005	56.0	MW360-1	2003 03 (Fall)
Chloromethane (UG/L)	8	35	0.70 J	M03-05	26 Apr 2006	1.0	MBG-3	2003 04 (Winter)
2-Hexanone (UG/L)	1	35	28.0	398-MW4	15 Sep 2005	6.8 J	M03-05	2004 04 (Winter)
Isopropylbenzene (UG/L)	5	35	10.0	OU2B-MW01	01 May 2006	8.1	M03-04	2003 03 (Fall)
Methyl ethyl ketone (MEK) (UG/L)	3	35	6.2 J	M03-04	26 Apr 2006	12.0 J	M03-12	2003 04 (Winter)
Methyl isobutyl ketone (MIBK) (UG/L)	3	35	17.0 J	M03-04	26 Apr 2006	62.0	M03-04	2003 03 (Fall)
n-Butylbenzene (UG/L)	3	35	0.60 J	M03-04	26 Apr 2006	2.4	M03-04	2002 03 (Fall)
n-Propylbenzene (UG/L)	3	35	16.0	M03-04	26 Apr 2006	18.0	M03-04	2003 03 (Fall)
p-Isopropyltoluene (UG/L)	1	35	0.090 J	OU2B-MW01	01 May 2006	0.80 J	M03-04	2002 03 (Fall)
sec-Butylbenzene (UG/L)	4	35	1.4	OU2B-MW01	01 May 2006	1.0	398-MW4	2003 01 (Spring)
Tert-butyl alcohol (UG/L)	11	35	810	M03-04	26 Apr 2006	980	M03-04	2004 02 (Summer)
Tert-butylbenzene (UG/L)	2	35	0.20 J	OU2B-MW01	01 May 2006	0.34 J	MW360-2	2003 04 (Winter)
1,1,2-Trichloroethane (UG/L)	2	35	0.20 J	MW360-2	16 Sep 2005	--	NA	NA
1,2,4-Trimethylbenzene (UG/L)	3	35	1.1 J	M03-04	26 Apr 2006	46.0	M03-04	2002 02 (Summer)
1,3,5-Trimethylbenzene (UG/L)	3	35	3.1	M03-04	26 Apr 2006	20.0	M03-04	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 5-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 3 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 3 Group (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	3	8	1.4 J	D03-02	15 Sep 2005	0.80 J	D03-02	2005 01 (Spring)
TPH-Diesel (UG/L)	2	5	320	D11-01	26 Apr 2006	69.0	D11-01	2004 04 (Winter)
Trichloroethene (UG/L)	1	8	1.2 J	D03-02	15 Sep 2005	4.8	D04-03	2003 04 (Winter)
1,1-Dichloroethene (UG/L)	1	8	0.80	D03-04	26 Apr 2006	3.1	D03-04	2004 02 (Summer)
TPH-Motor Oil (UG/L)	3	5	2100	D11-01	26 Apr 2006	230 J	D11-01	2004 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	1	8	3.0	D03-02	15 Sep 2005	0.51 J	D04-03	2003 04 (Winter)
TPH-Gasoline (UG/L)	1	5	170	D03-01	15 Sep 2005	270	D03-01	2002 04 (Winter)
trans-1,2-Dichloroethene (UG/L)	1	8	0.30 J	D03-02	15 Sep 2005	--	NA	NA
Carbon Disulfide (UG/L)	3	8	0.30 J	D04-02	26 Apr 2006	0.70	D03-02	2004 04 (Winter)
Vinyl Chloride (UG/L)	1	8	7.5	D03-02	15 Sep 2005	--	NA	NA
Tert-butyl alcohol (UG/L)	3	8	120	D03-02	15 Sep 2005	18.0 J	D11-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 5-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 3 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 3 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	30	33	1.1	M03-04	15 Sep 2005	3.9 J	M03-06	2003 03 (Fall)
Arsenic (UG/L)	33	33	68.0	M03-04	15 Sep 2005	133	M03-04	2003 02 (Summer)
Barium (UG/L)	33	33	650	MW360-2	16 Sep 2005	880 J	M03-04	2002 02 (Summer)
Beryllium (UG/L)	9	33	0.75 J	OU2B-MW02	01 May 2006	0.50 J	M03-13	2004 04 (Winter)
Cadmium (UG/L)	5	33	59.0	M04-06	27 Apr 2006	2.5 J	M11-04	2003 04 (Winter)
Chromium (UG/L)	20	33	47.0	M04-05	19 Sep 2005	115	M04-05	2003 02 (Summer)
Cobalt (UG/L)	29	33	66.0	M03-15	27 Apr 2006	41.0	M03-09	2002 03 (Fall)
Copper (UG/L)	23	33	14.0	MW97-3	27 Apr 2006	23.0	M03-09	2004 02 (Summer)
Lead (UG/L)	14	33	39.0	OU2B-MW02	01 May 2006	97.0 J	MW360-1	2004 04 (Winter)
Manganese (UG/L)	33	33	19000	M03-16	27 Apr 2006	5400	MW360-2	2004 02 (Summer)
Mercury (UG/L)	1	33	0.13 J	MW360-3	19 Sep 2005	0.061 J	M03-05	2004 02 (Summer)
Molybdenum (UG/L)	14	33	190	M04-05	19 Sep 2005	390	M04-05	2002 03 (Fall)
Nickel (UG/L)	19	33	870	MW360-1	27 Apr 2006	740	MW360-1	2005 01 (Spring)
Selenium (UG/L)	7	33	12.0	M03-05	15 Sep 2005	65.0	M03-09	2002 04 (Winter)
Silver (UG/L)	20	33	4.5 J	M11-05	27 Apr 2006	3.9 J	M07B-01	2004 04 (Winter)
Thallium (UG/L)	26	33	18.0	M03-09	26 Apr 2006	6.6	MW360-4	2005 01 (Spring)
Vanadium (UG/L)	19	33	46.0	M03-10	19 Sep 2005	52.3	M03-10	2003 04 (Winter)
Zinc (UG/L)	24	33	200	37-MJ-MW1	15 Sep 2005	46.0 J	M03-09	2002 03 (Fall)
Aluminum (UG/L)	2	33	55.0 J	37-MJ-MW1	15 Sep 2005	970 J	WA-8	2002 02 (Summer)
Iron (UG/L)	26	33	31000	OU2B-MW01	01 May 2006	28000 J	M03-07	2002 04 (Winter)
Calcium (MG/L)	33	33	720	M03-16	27 Apr 2006	480 J	M03-09	2003 02 (Summer)
Magnesium (MG/L)	33	33	2300	M03-16	27 Apr 2006	1800	M03-09	2003 04 (Winter)
Potassium (MG/L)	32	32	530	M03-16	27 Apr 2006	700	M03-09	2003 04 (Winter)
Sodium (MG/L)	33	33	19000	M03-16	27 Apr 2006	16000	M03-09	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 5-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 3 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 3 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	7	8	1.4	D04-01	19 Sep 2005	18.1 J	D04-01	2003 02 (Summer)
Arsenic (UG/L)	7	8	19.0	D11-01	26 Apr 2006	76.0	D03-01	2003 04 (Winter)
Barium (UG/L)	8	8	64.0	D03-03	25 Apr 2006	69.9 J	D03-01	2003 02 (Summer)
Beryllium (UG/L)	3	8	0.81 J	D04-03	26 Apr 2006	0.33 J	D11-01	2004 02 (Summer)
Cadmium (UG/L)	4	8	13.0	D11-01	26 Apr 2006	2.8 J	D03-01	2002 02 (Summer)
Chromium (UG/L)	7	8	21000	D03-03	25 Apr 2006	12.0	D11-01	2002 02 (Summer)
Cobalt (UG/L)	8	8	220	D03-03	25 Apr 2006	35.0	D03-01	2002 02 (Summer)
Copper (UG/L)	2	8	2.1 J	D11-01	26 Apr 2006	25.0	D04-03	2004 02 (Summer)
Lead (UG/L)	2	8	6.0	D03-02	25 Apr 2006	100 J	D04-03	2004 04 (Winter)
Manganese (UG/L)	8	8	33000	D03-03	25 Apr 2006	31900	D04-03	2003 02 (Summer)
Mercury (UG/L)	1	8	0.12 J	D03-04	26 Apr 2006	0.062 J	D04-03	2004 02 (Summer)
Molybdenum (UG/L)	6	8	77.0	D03-04	26 Apr 2006	30.5 J	D03-01	2003 04 (Winter)
Nickel (UG/L)	5	8	39000	D03-03	25 Apr 2006	46.0	D03-01	2004 02 (Summer)
Selenium (UG/L)	5	8	17.0	D04-03	26 Apr 2006	78.0	D04-02	2002 04 (Winter)
Silver (UG/L)	8	8	9.3	D04-01	26 Apr 2006	1.7 J	D03-01	2002 02 (Summer)
Thallium (UG/L)	3	8	6.7	D03-04	26 Apr 2006	15.0	D03-01	2004 04 (Winter)
Vanadium (UG/L)	2	8	35.0	D03-03	25 Apr 2006	5.9 J	D04-01	2004 02 (Summer)
Zinc (UG/L)	6	8	85.0	D03-03	25 Apr 2006	21.0	D11-01	2004 02 (Summer)
Aluminum (UG/L)	3	8	510	D03-03	25 Apr 2006	1800	D04-01	2002 02 (Summer)
Iron (UG/L)	7	8	260000	D03-03	25 Apr 2006	17000	D04-03	2004 02 (Summer)
Calcium (MG/L)	8	8	1100	D04-02	16 Sep 2005	1610	D04-02	2003 04 (Winter)
Magnesium (MG/L)	8	8	1800	D03-02	25 Apr 2006	2890	D04-03	2003 02 (Summer)
Potassium (MG/L)	8	8	420	D03-02	25 Apr 2006	346	D03-01	2003 04 (Winter)
Sodium (MG/L)	8	8	15000	D03-02	25 Apr 2006	17000	D04-03	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 5-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 3 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 3 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	13	13	830	398-MW4	15 Sep 2005	1310	M03-06	2003 04 (Winter)
Sulfide (MG/L)	5	13	0.61	M03-06	26 Apr 2006	0.38	M03-06	2002 02 (Summer)
Alkalinity, bicarbonate (MG/L)	13	13	830	398-MW4	15 Sep 2005	1310	M03-06	2003 04 (Winter)
Alkalinity, carbonate (MG/L)	1	13	4.0	M03-06	16 Sep 2005	76.0	M03-06	2004 02 (Summer)
Ethane (MG/L)	2	14	0.055	OU2B-MW01	01 May 2006	0.0009 J	398-MW4	2003 04 (Winter)
Methane (MG/L)	14	14	14.0 J	M03-04	26 Apr 2006	8.1	MBG-3	2004 02 (Summer)
Total Dissolved Solids (MG/L)	25	25	47400	M03-05	15 Sep 2005	4910	M03-04	2004 04 (Winter)
Nitrate (MG/L)	10	26	3.4	M04-06	27 Apr 2006	7.9	M04-06	2004 04 (Winter)
Nitrite (MG/L)	2	26	0.040 J	M03-05	26 Apr 2006	0.030 J	MW97-3	2004 04 (Winter)
Chloride (MG/L)	26	26	25000	M03-05	15 Sep 2005	11300	398-MW4	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	26	26	4000	M03-05	15 Sep 2005	430	M11-05	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

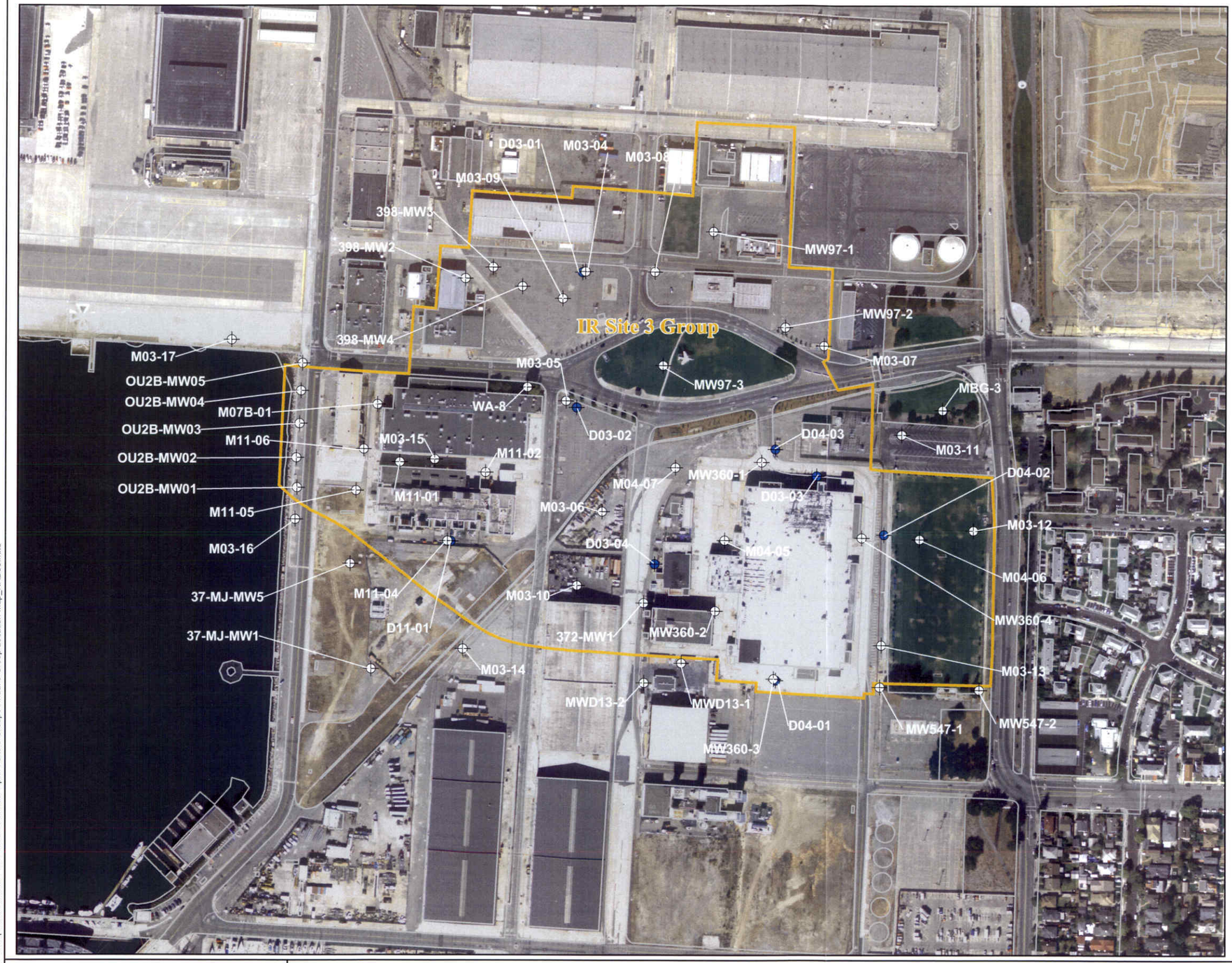
Table 5-7

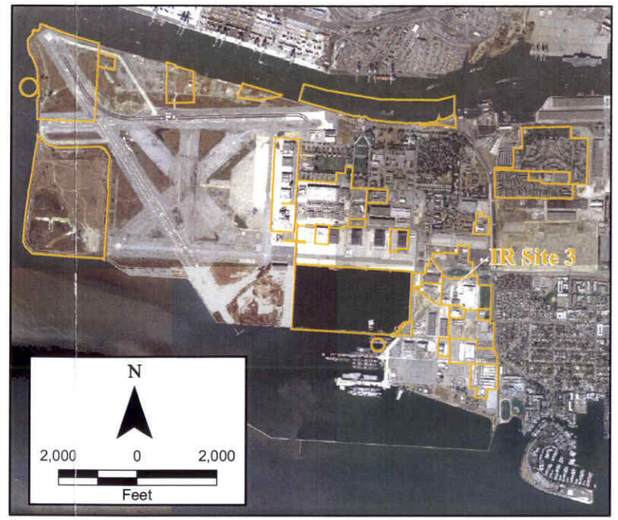
Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 3 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 3 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	3	3	1000	D11-01	26 Apr 2006	1100	D11-01	2004 04 (Winter)
Sulfide (MG/L)	1	3	0.16	D04-02	26 Apr 2006	--	NA	NA
Alkalinity, bicarbonate (MG/L)	3	3	1000	D11-01	26 Apr 2006	1100	D11-01	2004 04 (Winter)
Methane (MG/L)	4	4	0.075 J	D04-02	26 Apr 2006	0.028	D11-01	2004 02 (Summer)
Total Dissolved Solids (MG/L)	5	5	57600	D04-03	16 Sep 2005	50600	D04-03	2004 02 (Summer)
Chloride (MG/L)	5	5	27000	D04-03	26 Apr 2006	32100	D04-03	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	5	5	5700	D11-01	26 Apr 2006	5900	D11-01	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES





Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- IR Site Boundary
- Facility

N

300 0 300

Feet

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FIGURE 5-1
IR SITE 3 GROUP
SITE AND WELL LOCATION MAP

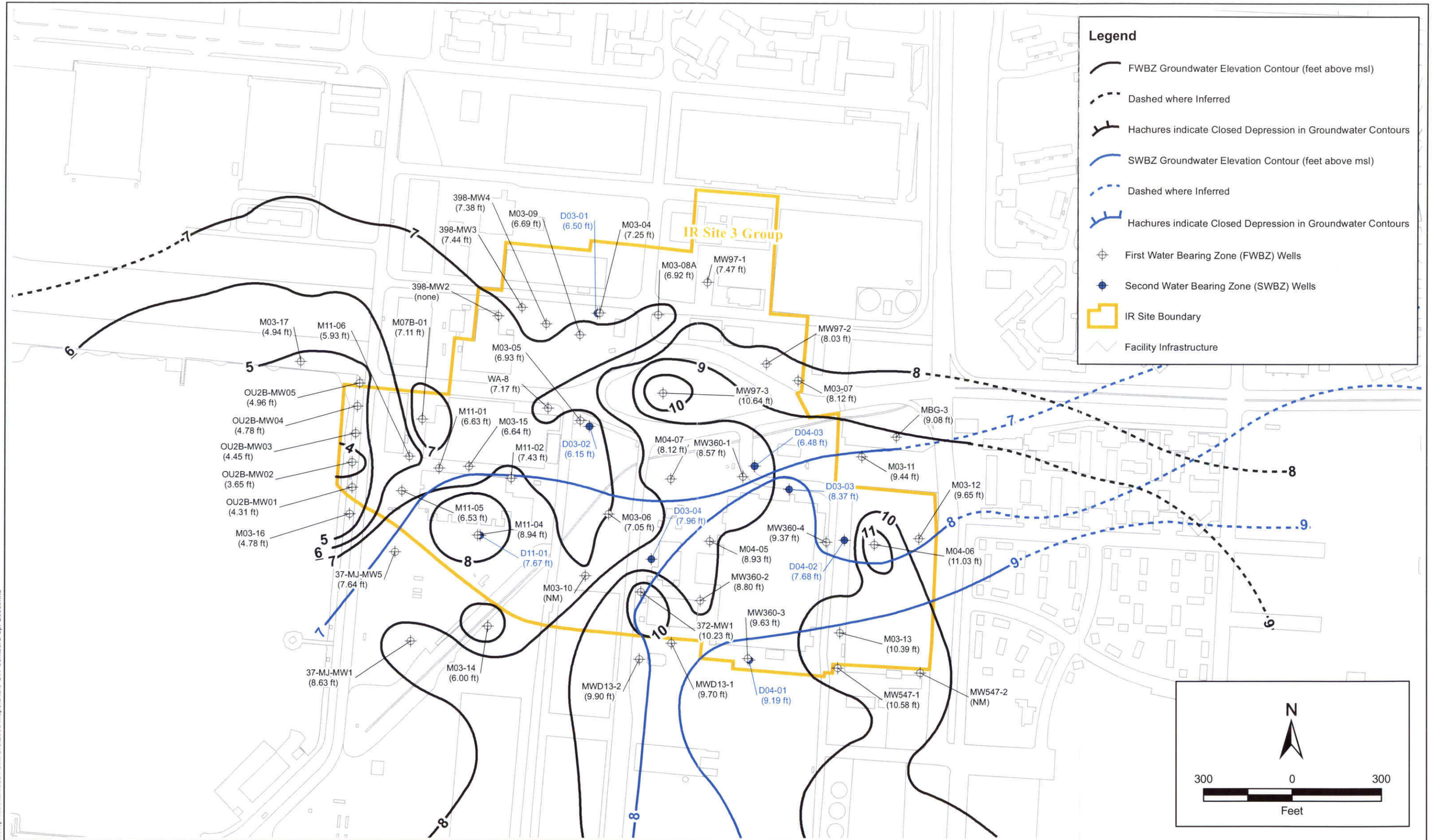

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FIGURE 5-2
IR SITE 3 GROUP
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

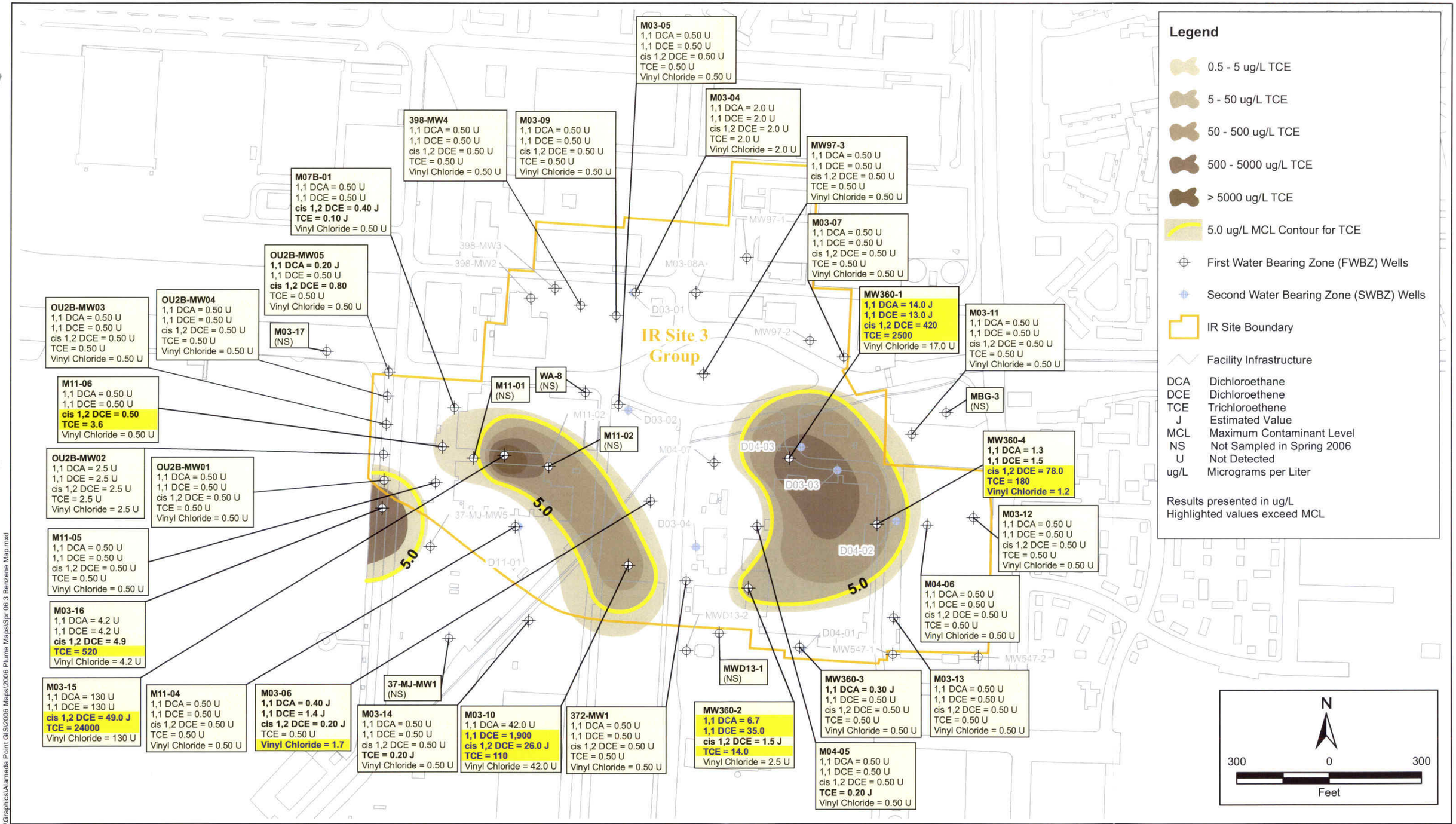

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FIGURE 5-3
IR SITE 3 GROUP
GROUNDWATER DISTRIBUTION OF
SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006

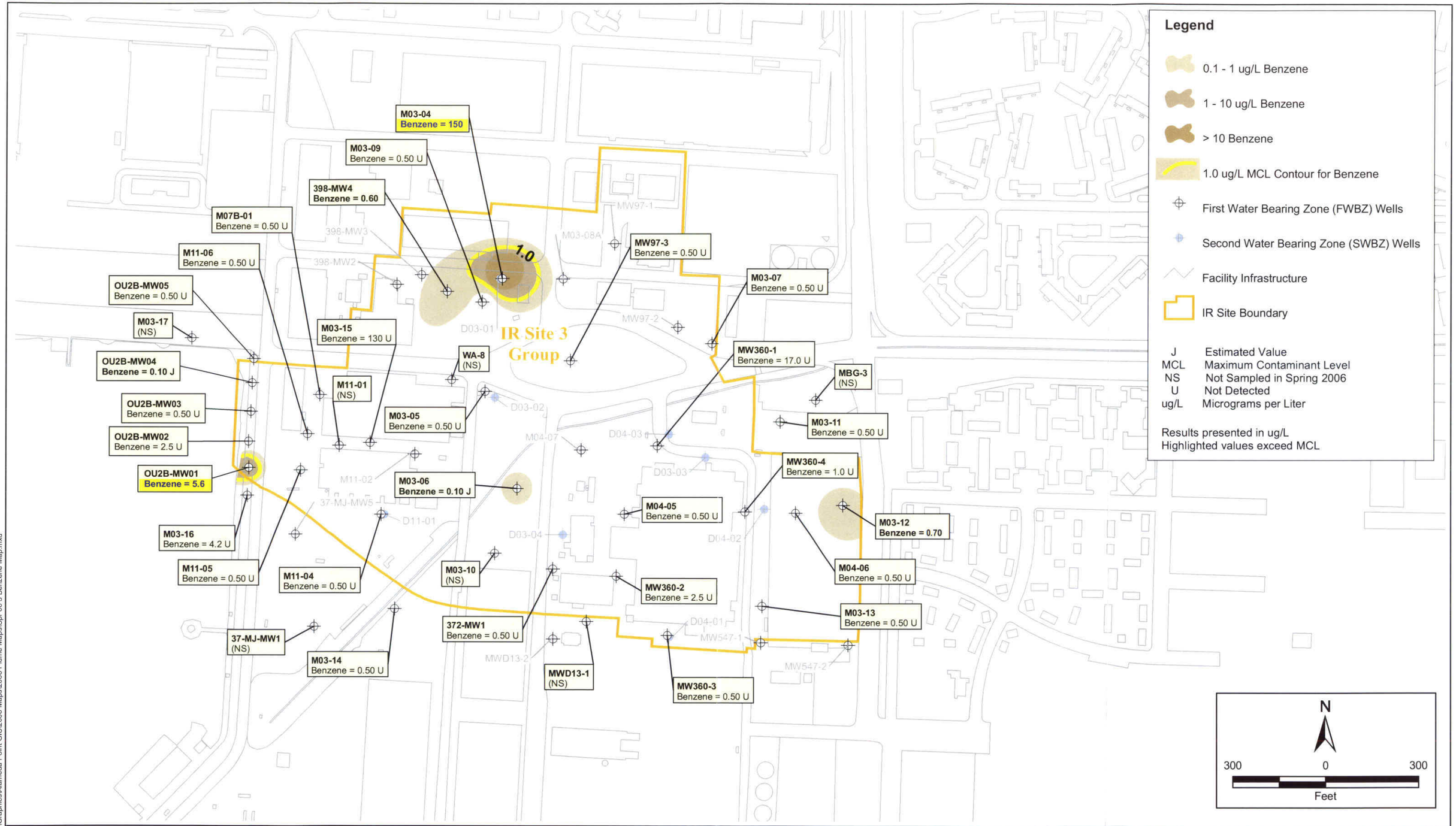

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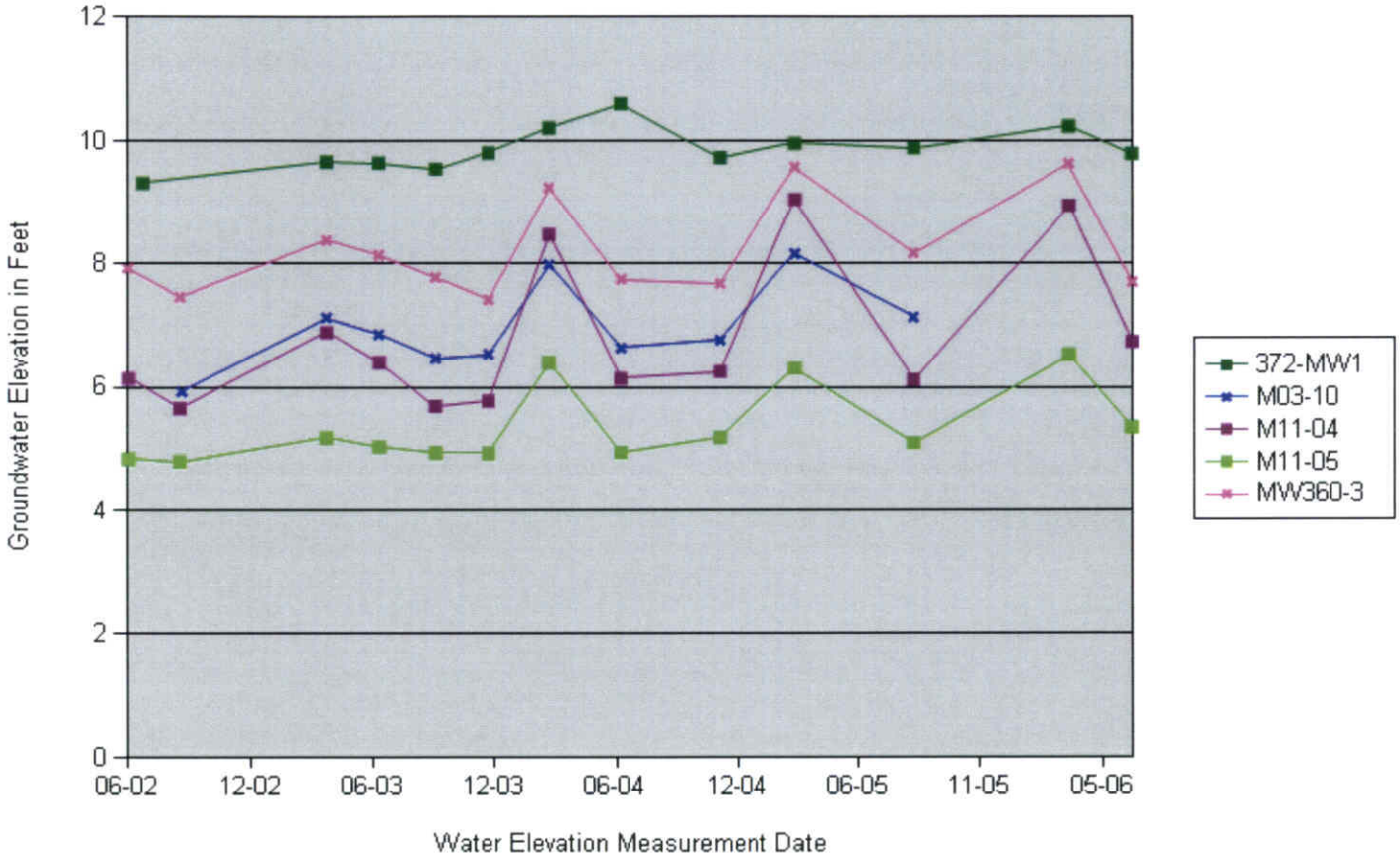
FIGURE 5-4
IR SITE 3 GROUP
GROUNDWATER DISTRIBUTION OF
BENZENE IN FWBZ WELLS
SPRING 2006



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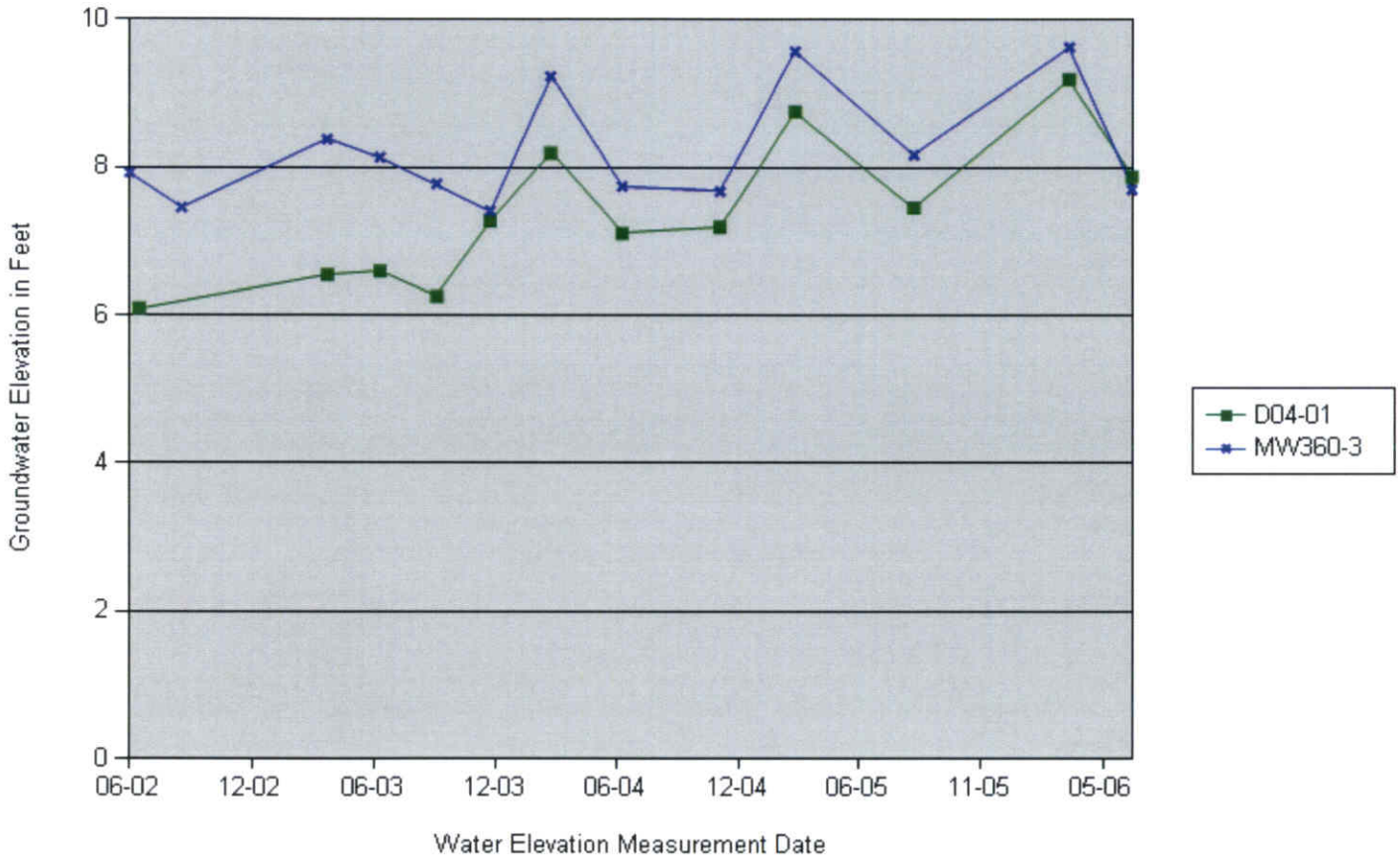

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FIGURE 5-5b
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 3:
SWBZ WELL D04-01 AND CO-LOCATED FWBZ WELL MW360-3
SUMMER 2002 THROUGH SPRING 2006

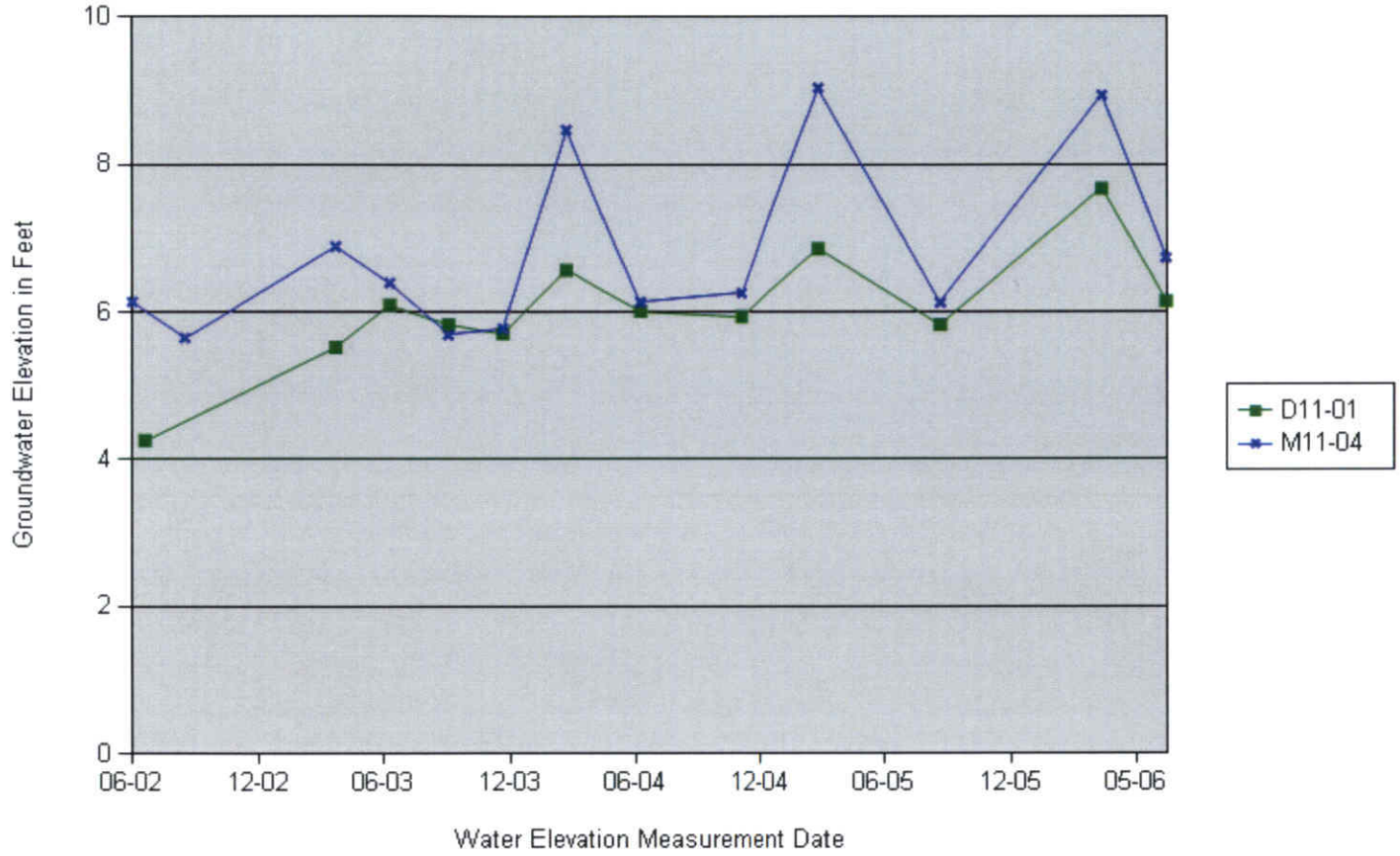

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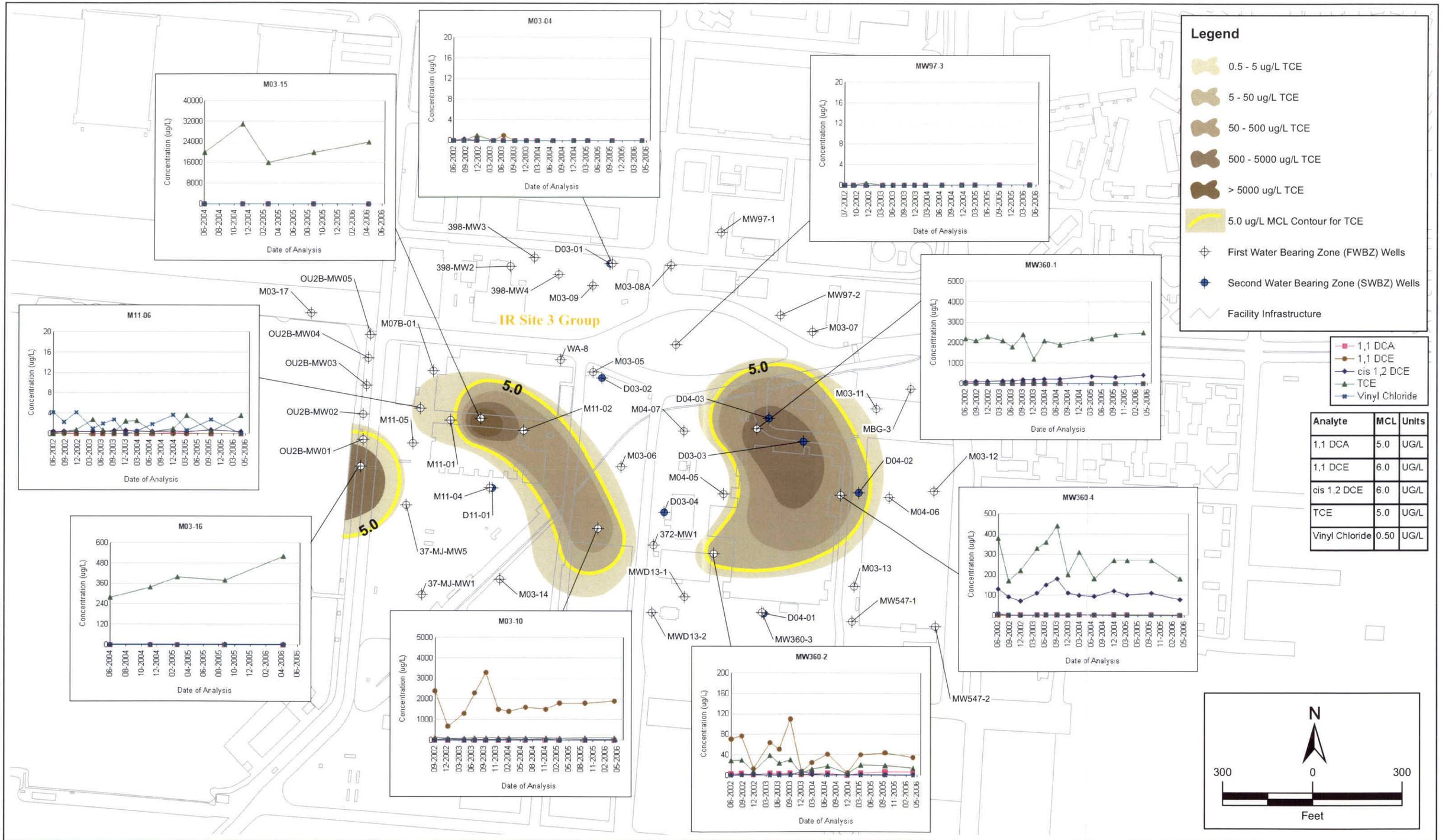
FIGURE 5-5c
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 3:
SWBZ WELL D11-01 AND CO-LOCATED FWBZ WELL M11-04
SUMMER 2002 THROUGH SPRING 2006



Analyte	MCL	Units
1,1 DCA	5.0	UG/L
1,1 DCE	6.0	UG/L
cis 1,2 DCE	6.0	UG/L
TCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

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FIGURE 5-6
IR SITE 3 GROUP
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Trend Maps\Spr 06 3 Benzene Trend Map.mxd

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FIGURE 5-7
IR SITE 3 GROUP
GROUNDWATER CONCENTRATIONS OF BENZENE
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

6.0 INSTALLATION RESTORATION SITE 5 GROUP

The IR Site 5 Group includes IR Sites 5, 10, and 12, which represent the former central industrial area of Alameda Point north of the Seaplane Lagoon (Figure 1-2). Additional background information is available in the *Draft OU-2 Remedial Investigation Report* (TtEMI, 1999b), and the OU-1 and OU-2 *Data Gap Summary Report* (TtEMI, 2002).

IR Site 5 consists of over 18 acres in the central portion of Alameda Point including Building 5 (Aircraft Rework Facility), which is the largest building at Alameda Point. Building 5 is currently vacant, but housed specialty shops for aircraft component repair and maintenance beginning in 1942. Shops within Building 5 were used for the cleaning, reworking, and manufacturing of metal parts, tool maintenance, plating operations, and painting operations. The paint shop contained two paint bays and several smaller paint spray booths. A plating shop and a selective plating shop used to plate small items by hand were also housed within Building 5. Processes conducted in the plating shop included degreasing; caustic and acid etching; metal stripping and cleaning; and chrome, nickel, silver, cadmium, and copper plating. The painting and plating operations were discontinued in 1990 and 1993, respectively. Early waste handling practices included the discharge of liquid wastes into storm drains. However, upon completion of the Industrial Wastewater Treatment Plant (IWTP) near the southwestern corner of Building 5 most liquid waste from Building 5 was treated at the IWTP.

From 1940 through the early 1960s, radio luminescent aircraft instrument dials were refurbished with radium-226 on the second floor of Building 5. Radium paint waste from the process was washed down sink drains into the storm sewer system leading from Building 5 into the Seaplane Lagoon.

IR Site 10 (Building 400) is located approximately 750 feet north of Seaplane Lagoon. The building was operated as a missile rework facility in the mid-1950s until the base was closed. Paint stripping, construction of fiberglass aircraft components, and aircraft parts cleaning operations generated such wastes as paint sludge, metal shavings, paint strippers, cleaning solvents (such as TCE and carbon tetrachloride), testing fluids and miscellaneous oils, and oil and grease.

Radium-226 was also used in Building 400 to refurbish luminescent aircraft instrument dials from the 1950s to the time of base closure. Refurbishing of the dials took place on the second floor of Building 400. During early operations, wastes containing radium paint were washed down the sink drains that led into the storm sewer system leading from Building 400 into the main line and out to Seaplane Lagoon. Waste handling processes were upgraded through time to comply with changes in regulations, and prior practices were terminated.

IR Site 12 includes Building 10, a 21,000-square-foot structure, and the surrounding area. Building 10 housed the former NAS Alameda power plant. The plant is no longer in operation. The boilers at the plant initially burned fuel oil for power generation. In the early 1970s, fuel oil use was discontinued and natural gas became the main fuel source. Diesel fuel was used as a backup fuel supply.

As result of these past activities, chlorinated and non-chlorinated solvents and metals have been detected within the IR Site 5 Group groundwater, with VOC plumes primarily concentrated under the eastern and central section of Building 5 (Shaw, 2004). Source plumes are also present under the northern and western portions of Building 55. Remedial design investigations conducted indicate the presence of chlorinated solvent DNAPL s in the FWBZ east of Building 5 (southwest of Building 62) as deep as 45 feet bgs near the contact between the BSU and the Merritt Sand. The deepest detections approach SWBZ depths; vinyl chloride has been detected in the SWBZ. Elevated metal detections occurred in the general location of the plating shop at the south end of Building 5. TPH in soil and groundwater associated with former UST locations have been detected beneath and south of Building 5.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 5 Group included sampling and analysis of 22 groundwater monitoring wells (14 FWBZ wells and 8 SWBZ wells). Another 13 FWBZ groundwater monitoring wells and one SWBZ well are used for quarterly groundwater-level measurements only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program along with their analytical requirements are listed in Table 6-1. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for

obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 6-1.

6.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 27 FWBZ and nine SWBZ groundwater monitoring wells during the current sampling year (including the Summer 2005 and Spring 2006 sampling events) at Site 5 Group; monitoring well locations are shown on Figure 6-1. The results are presented, along with previously collected water-level data, in Table 6-2.

6.2 ANALYTICAL PARAMETERS

Groundwater samples at IR Site 5 Group collected during the current sampling year were analyzed for the following parameters:

- TPH by EPA Method 8015B and VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C
- PAHs by EPA Method 8310
- Dissolved Metals by EPA Methods 6010B/6020A/7470A/7196A
- Organochlorine Pesticides by EPA Method 8081A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 6-1 lists the groundwater monitoring wells that are active in the current Basewide Monitoring Program and the analytical requirements for each well.

6.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year along with previously obtained analytical results are summarized in the following tables:

- Table 6-3, "Groundwater Sample Analytical Results at IR Site 5 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 6-4, "Groundwater Sample Analytical Results at IR Site 5 Group: Semivolatile Organic Compounds, Summer 2002 through Spring 2006"

- Table 6-5, "Groundwater Sample Analytical Results at IR Site 5 Group: Polycyclic Aromatic Hydrocarbons, Summer 2002 through Spring 2006"
- Table 6-6, "Groundwater Sample Analytical Results at IR Site 5 Group: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 6-7, "Groundwater Sample Analytical Results at IR Site 5 Group: Organochlorine Pesticides, Summer 2002 through Spring 2006"
- Table 6-8, "Groundwater Sampling Field Parameters at IR Site 5 Group, Summer 2002 through Spring 2006"
- Table 6-9, "Groundwater Sample Analytical Results at IR Site 5 Group: Natural Attenuation Parameters, Summer 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

6.4 DISCUSSION OF RESULTS

Groundwater samples collected since the Summer 2002 sampling event indicate that groundwater concentrations of TPH have been low to non-detect for most of the site wells; only well 2MW8S has consistently exhibited TPH concentrations significantly greater than the reporting limit. Although no MCL exists for TPH compounds, the sum of the TPH fractions in this well during the Summer 2005 sampling event was 9,400 µg/L with TPH characterized as gasoline being the only component detected (Table 6-3). This same well has exhibited MCL exceedances of benzene during historical sampling events, but neither benzene nor any other aromatic hydrocarbons were detected exceeding MCLs during the current sampling year. Three

other wells, however, showed benzene at concentrations greater than the MCL in Spring 2005. Two of these wells (M05-11 and M05HW-01) were sampled for the first time in Spring 2006, and are located near the northwest and southeast margins of the chlorinated organic contaminant plume (see discussion in Section 6.4.2). The third well (M05-02) is located near the western edge of this contaminant plume. While the detection at M05-02 was not noted in previous samples, it does not appear to signify an expansion of the contaminant plume, because other VOCs above MCLs have been reported from this well for every previous sampling event (from Fall 2003 onward).

Concentrations of various chlorinated hydrocarbons have been consistently detected in groundwater samples collected from a few monitoring wells screened in the FWBZ at IR Site 5 Group. The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **TCE, 1,1-DCE, cis-1,2-DCE, 1,1-DCA, 1,1,1-trichloroethane (1,1,1-TCA),** and **vinyl chloride.** One SWBZ well (D05-04) exhibited TCE and vinyl chloride concentrations above MCLs during the current sampling year (Table 6-3). The distribution of chlorinated organic compounds at IR Site 5 Group is discussed in greater detail in Section 6.4.2.

Analysis was performed for SVOCs and PAHs only in FWBZ well 2MW8S; very low levels of a few analytes were detected during the current sampling year (Table 6-4); no SVOCs or PAHs were detected at concentrations exceeding the MCLs.

Dissolved metals detected in excess of MCLs include **arsenic** and **cadmium** in the FWBZ and **arsenic** and **selenium** in the SWBZ (Table 6-6). Arsenic was detected above its MCL in seven of the 18 wells analyzed for arsenic; however, except at two wells (FWBZ wells 2MW8S and M05-08), arsenic values are only slightly (less than twice) above background. Cadmium has frequently been above the MCL at well 2MW8S, and probably originates from the same contaminant source responsible for the volatile organics. The selenium result above the MCL, on the other hand, was the first such instance at the well, and probably does not indicate a persistent contaminant plume containing this metal.

Among organochlorine pesticides detected at IR Site 5 Group wells, no analytes exceeded MCLs during the current sampling year (Table 6-7). Previous to the current sampling year, heptachlor epoxide had exceeded its MCL in one sample, collected from well 2MW8S in Spring 2005.

6.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 6-2. The groundwater flow direction in the FWBZ at IR Site 5 Group is generally toward a depression in the western part of the site, at a gradient of approximately 0.002 feet per foot. Groundwater flow direction in the SWBZ at IR Site 5 Group is generally toward a depression in the center of the site at a gradient of approximately 0.001 feet per foot.

6.4.2 Groundwater Contaminant Distribution

As noted in Section 6.3, certain chlorinated hydrocarbons are present in groundwater at IR Site 5 Group at concentrations exceeding the MCLs. The distribution of selected chlorinated hydrocarbons is shown on Figure 6-3. 1,1-DCA was chosen as an indicator compound for Figure 6-3 to represent the distribution of volatile organic constituents in groundwater detected at concentrations exceeding MCLs. The highest concentrations of volatile organic constituents are generally found in the vicinity of well 2MW8S in the central portion of IR Site 5. This well is screened in the shallow fill material of the FWBZ. A contaminant plume of 1,1-DCA extends across an area of some 600 by 1,200 feet beneath much of Building 5 and to adjoining areas. In addition, values above the MCLs for benzene and vinyl chloride are present in well M05-11 at the northwestern corner of Building 5. No single contaminant is present in all the wells that have an exceedance of MCLs in IR Site 5 Group, but it appears likely that the contamination detected this year at well M05-11 is part of the same contaminant plume that is centered on well 2MW8S to the southeast (see Figure 6-3). This assertion is based on the fact that both well M05-11 and the 2MW8S plume have a similar list of contaminants including benzene and various chlorinated organic compounds such as 1,1-DCA and vinyl chloride (Table 6-3). The full extent of contaminants exceeding MCLs is not known near the northwestern and southeastern plume margins, as non-detect wells were not sampled beyond wells M05-02, M05-11, and M05HW-01 in the Spring 2006 event. This shortcoming can be largely addressed by sampling existing wells M05-01 and M12-03, which were not sampled in Spring 2006.

In groundwater of the SWBZ, well D05-04 had detections of TCE and vinyl chloride at concentrations above MCLs in the Summer 2005 sample. These compounds had not previously been reported from this well. However, the location is close to the DNAPLs previously identified east of Building 5. Vinyl chloride had already been identified at one SWBZ well (D05-03) at concentrations greater than the MCL, but the current sampling year detections at well D05-04 may mark incipient entry of contamination into the SWBZ near the DNAPL source area. Note that the most-recent sample (Spring 2006) at D05-04 showed much lower (for TCE) to non-detect (for vinyl chloride) results, consistent with the idea that any contamination at the SWBZ depth represents the leading edge of a plume rather than its interior portion.

In the current sampling year, arsenic, cadmium, and selenium have exceeded MCLs at one or more wells in the IR Site 5 Group (Table 6-6). The selenium exceedance at well D12-01 was the only such exceedances, and may not represent ongoing contamination. Arsenic at four wells and cadmium at one well have consistently exceeded MCLs since 2002. Three of the four arsenic exceedances and the cadmium exceedance are in a downgradient (western) part of the site at wells 2MW8S, M05-06, and M05-10, and appear to represent low-level contamination (slightly above MCLs) of limited extent. The fourth arsenic exceedance is in a different part of the site, and represents at most a small area of contamination.

6.4.3 Comparison of Current Analytical Results with Historical Data

A comprehensive summary of the groundwater sampling analytical results for the current sampling year is provided in Table 6-10, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. In addition, Table 6-10 also lists the historical maximum concentration for each analyte. Concentrations exceeding MCLs are highlighted in yellow.

In general, many of the analytes detected and exceeding MCLs during the Summer 2005 through Spring 2006 sampling year were similar to previous sampling years, with the following exceptions:

- Tetrachloroethene (PCE) (FWBZ only), antimony (SWBZ only), thallium (both FWBZ and SWBZ), and heptachlor epoxide (FWBZ only) exceeded the MCL during historical sampling, but not during the current sampling year

- TCE and selenium (both in an SWBZ well only) exceeded the MCL during the current sampling year, but not during historical sampling events.

Figure 6-5 shows concentration trends through time for selected volatile organic compounds at four monitoring wells in IR Site 5 Group.

6.4.4 Trends in Groundwater Elevation Data

For IR Site 5 Group, three hydrographs have been prepared for the Spring 2006 Annual Report, as follows:

- Figure 6-4a, "Trends in Groundwater Elevations at IR Site 5 Group: East-West Oriented FWBZ Wells"
- Figure 6-4b, "Trends in Groundwater Elevations at IR Site 5 Group: FWBZ Well M05-04 and SWBZ Well D05-08, FWBZ Well M12-04 and SWBZ Well D12-01"
- Figure 6-4c, "Trends in Groundwater Elevations at IR Site 5 Group: Northwest-Southeast Oriented SWBZ Wells"

The following observations can be made from viewing the hydrographs:

1. Groundwater elevations at IR Site 5 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. A similar pattern is apparent even for widely spaced monitoring wells (Figures 6-4a and 6-4c).
2. An overall increase in groundwater elevations over time is apparent; i.e. peak seasonal elevations for most wells have shown a tendency to increase every year since 2002. These changes are likely due to an overall increase in precipitation during the measurement interval.
3. Hydrographs for the two sets of co-located wells shown on Figure 6-4b indicate a downward vertical gradient between FWBZ and SWBZ wells that is consistent over time; i.e. groundwater elevations at FWBZ wells are always higher than at corresponding SWBZ wells.

A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the lower confining layer of the FWBZ or if there are areas where the aquitard separating the upper and lower water-bearing zones is absent. The parallel seasonal variance of FWBZ and SWBZ wells suggests that such a connection is possible at IR Site 5 Group. Though limited in degree, evidence from contamination patterns (similar contamination in some SWBZ wells as in the FWBZ

contaminant plume; see Section 6.4.5 below) is consistent with the idea of a hydraulic connection between the FWBZ and SWBZ at IT Site 5 Group.

6.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at IR Site 5 Group since monitoring was initiated at the site in Summer 2002. Figure 6-5 shows concentration trends through time for selected volatile organic compounds at four monitoring wells in IR Site 5 Group.

In general, this figure shows a general downward trend through time for contaminants in well 2MW8S, which is located in the core of the chlorinated-organic groundwater contaminant plume. The other wells on Figure 6-5 do not display clear increasing or decreasing trends. Evidence from wells located northeast and southwest of the core of the contaminant plume (M05-05, M05-06, and M05-08) do not suggest increases in contaminant concentrations in these directions. However, two other wells near the northwest and southeast margins of the contaminant plume (M05-11 and M05HW-01) were sampled for the first time in Spring 2006, and thus do not have a historical record to display on Figure 6-5. However, the detections of benzene and vinyl chloride at these wells leave open the possibility that the contaminant plume is expanding in these directions. It should also be noted that the first occurrence of benzene and vinyl chloride above MCLs was noted in Spring 2006 at well M05-02 near the northwestern periphery of the chlorinated organic contaminant plume. Future sampling results for these wells will be reviewed closely for evidence of plume advance. Renewed sampling at existing wells M05-01 and M12-03 would help to fill the data gaps at the northwestern and southeastern margins of the IR Site 5 Group contaminant plume.

6.5 CONCLUSIONS AND RECOMMENDATIONS

As discussed in the previous sub-sections, IR Site 5 Group contaminants of concern include benzene, cadmium, and several chlorinated hydrocarbons. Trends over time shown on Figure 6-5 suggest that contaminant concentrations have been decreasing over time in the core of the plume. However, contaminant concentrations may be increasing at the northwest and southeast margins of the plume as well as its lower boundary, into the SWBZ. Sampling at existing wells

M05-01 and M12-03 would help to restore the capability of the monitoring program to monitor the full extent of the contaminant plume.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 6-1
Groundwater Monitoring Summary, IR Site 5 Group Summer 2005 and Spring 2006

				Organic Compounds						Inorganic Compounds		Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells																
First	2MW8S	Fill	8.5 - 13.5	X	X	X	X	X	X	X	X	X	X	X	X	X
	M05-01	Fill	4 - 14	X	X	X				X	X	X	X	X	X	X
	M05-02	Fill	4 - 14			X				X						
	M05-04	Fill	5 - 15	X	X	X				X	X	X	X	X	X	X
	M05-05	Fill	4 - 14	X	X	X				X	X	X	X	X	X	X
	M05-06	Fill	3 - 13	X	X	X				X	X					
	M05-08	Fill-BSU	7 - 15	X	X	X				X	X	X	X	X	X	X
	M05-09	Fill	5 - 15	X	X	X				X	X	X	X	X	X	X
	M05-11	Fill	5 - 15	X	X	X				X	X	X	X	X	X	X
	M05HW-01		5 - 15	X	X	X				X	X	X	X	X	X	X
	M10-01	Fill-BSU	4 - 14	X	X	X			X	X	X	X	X	X	X	X
	M10-02	Fill	3 - 13	X	X	X				X	X	X	X	X	X	X
	M117-E	Fill-BSU	8 - 18	X	X	X				X	X	X	X	X	X	X
	M12-04	Fill-BSU	4 - 14	X	X	X				X	X	X	X	X	X	X
Second	D05-01	Merritt	60 - 70	X	X	X				X	X	X	X	X	X	X
	D05-03	Merritt-USA	57 - 67	X	X	X				X	X					
	D05-04	Lower Merritt	65 - 70			X							X	X	X	X
	D05-05	Lower Merritt	65 - 70			X							X	X	X	X
	D05-06	Lower Merritt	65.6 - 70.6			X							X	X	X	X
	D05-07	Lower Merritt	65 - 70			X							X	X	X	X
	D05-08	Lower Merritt	65 - 70			X							X	X	X	X
	D12-01	Merritt	60 - 70	X	X	X				X	X	X	X	X	X	X

Table 6-1
Groundwater Monitoring Summary, IR Site 5 Group Summer 2005 and Spring 2006

				Organic Compounds						Inorganic Compounds		Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	SVOCs (EPA 8270C)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA 9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Non-Program Wells, Water Level Only																
First	M05-03	Fill	4 - 12	-	-	-	-	-	-	-	-	-	-	-	-	-
	M10-03	Fill	3 - 13	-	-	-	-	-	-	-	-	-	-	-	-	-
	M116-E	Fill	10 - 20	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05BS-01	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-			
	M05-07	Fill	7 - 17	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05-10	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
	M05-12	Fill	5.5 - 15.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	MBG-4	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
	M110-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	M111-A	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-	-	-	-	-
	M115-E	Fill	7 - 12	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-02	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-	-	-
	M12-03	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-	-	-
Second	D05-02	Fill	57 - 67	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event

Well sampled for this parameter at the Spring 2006 sampling event

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds

(8260B) - U.S. Environmental Protection Agency analytical method
SVOCs - Semivolatile Organic Compound
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 6-2
Summary of Groundwater Level Measurements at IR Site 5
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	2MW8S	12.64	12.64	04/11/06	6.06	6.58
		12.64	12.64	08/22/05	7.03	5.61
		12.64	12.64	03/01/05	6.81	5.83
		12.64	12.64	11/08/04	7.31	5.33
		12.64	12.64	06/15/04	7.14	5.50
		12.64	12.64	03/01/04	6.73	5.91
		12.64	12.64	12/03/03	7.34	5.30
First	M05-01	12.28	11.88 *	04/10/06	5.59	6.29
		12.28	11.88 *	08/22/05	6.97	4.91
		12.28	11.88 *	03/01/05	6.35	5.53
		12.28	11.88 *	11/08/04	7.16	4.72
		12.28	11.88 *	06/15/04	7.16	4.72
		12.28	11.88 *	03/01/04	6.50	5.38
		12.28	11.88 *	12/03/03	7.29	4.59
		12.28	11.88 *	09/16/03	7.21	4.67
		12.28	11.88 *	06/23/03	7.11	4.77
		12.28	11.88 *	04/07/03	7.11	4.77
		12.28	11.88 *	12/10/02	7.68	4.20
		12.28	11.88 *	09/10/02	7.75	4.13
		12.28	11.88 *	06/25/02	7.60	4.28
First	M05-02	11.47	11.47	04/10/06	5.79	5.68
		11.47	11.47	08/22/05	6.76	4.71
		11.47	11.47	03/01/05	6.20	5.27
		11.47	11.47	11/08/04	6.92	4.55
		11.47	11.47	06/15/04	6.79	4.68
		11.47	11.47	03/01/04	6.30	5.17
		11.47	11.47	12/03/03	6.96	4.51
		11.47	11.47	09/16/03	6.97	4.50
		11.47	11.47	06/23/03	6.75	4.72
		11.47	11.47	04/07/03	6.65	4.82
First	M05-03 ‡	10.93	10.93 **	04/10/06	3.76	7.17
		10.93	10.93 **	08/22/05	5.25	5.68
		10.93	10.93 **	03/01/05	4.05	6.88
		10.93	10.93 **	11/08/04	5.41	5.52
		10.93	10.93 **	06/15/04	5.28	5.65
		10.93	10.93 **	03/01/04	4.06	6.87
		10.93	10.93 **	12/03/03	4.90	6.03
		10.93	10.93 **	09/16/03	5.56	5.37
		10.93	10.93 **	06/23/03	4.82	6.11
		10.93	10.93 **	04/07/03	4.71	6.22
First	M05-04 ‡	11.54	11.54 **	04/10/06	4.50	7.04
		11.54	11.54 **	08/22/05	5.75	5.79
		11.54	11.54 **	03/01/05	5.14	6.40
		11.54	11.54 **	11/08/04	6.07	5.47
		11.54	11.54 **	06/15/04	5.58	5.96
		11.54	11.54 **	03/01/04	5.21	6.38
		11.54	11.54 **	12/03/03	6.40	5.19
		11.54	11.54 **	09/16/03	6.19	5.40
		11.54	11.54 **	06/23/03	5.79	5.80
		11.54	11.54 **	04/07/03	5.84	5.75

Table 6-2
Summary of Groundwater Level Measurements at IR Site 5
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M05-05	11.22	10.71 *	04/10/06	4.10	6.61
		11.22	10.71 *	08/22/05	6.21	4.50
		11.22	10.71 *	03/01/05	5.00	5.71
		11.22	10.71 *	11/08/04	6.29	4.42
		11.22	10.71 *	06/15/04	6.32	4.39
		11.22	10.71 *	03/01/04	5.00	5.71
		11.22	10.71 *	12/03/03	6.30	4.41
		11.22	10.71 *	09/16/03	6.28	4.43
		11.22	10.71 *	06/23/03	6.30	4.41
		11.22	10.71 *	04/07/03	6.26	4.45
		11.22	10.71 *	12/10/02	7.04	3.67
		11.22	10.71 *	09/10/02	6.95	3.76
		11.22	10.71 *	06/25/02	6.90	3.81
First	M05-06	10.04	10.22 **	04/10/06	5.91	4.31
		10.04	10.22 **	08/22/05	7.05	3.17
		10.04	10.22 **	03/01/05	6.65	3.57
		10.04	10.22 **	11/08/04	7.09	3.13
		10.04	10.22 **	06/15/04	7.10	3.12
		10.04	10.22 **	03/01/04	6.02	4.20
		10.04	10.22 **	12/03/03	7.04	3.18
		10.04	10.22 **	09/16/03	7.04	3.18
		10.04	10.22 **	06/23/03	6.96	3.26
		10.04	10.22 **	04/07/03	7.04	3.18
		10.04	10.22 **	04/07/03	7.04	3.18
		10.04	10.22 **	09/10/02	6.75	3.47
		10.04	10.22 **	09/10/02	6.75	3.47
First	M05-08	13.30	13.11 *	04/10/06	5.59	7.52
		13.30	13.11 *	08/23/05	7.43	5.68
		13.30	13.11 *	03/01/05	6.64	6.47
		13.30	13.11 *	11/08/04	7.74	5.37
		13.30	13.11 *	06/15/04	7.70	5.41
		13.30	13.11 *	03/01/04	6.70	6.41
		13.30	13.11 *	12/03/03	7.96	5.15
		13.30	13.11 *	09/16/03	7.75	5.36
		13.30	13.11 *	06/23/03	7.37	5.74
		13.30	13.11 *	04/07/03	7.57	5.54
		13.30	13.11 *	12/10/02	8.70	4.41
		13.30	13.11 *	09/10/02	8.16	4.95
		13.30	13.11 *	07/10/02	8.22	4.89
First	M05-09	11.42	11.02 *	04/10/06	4.97	6.05
		11.42	11.02 *	08/22/05	6.52	4.50
		11.42	11.02 *	03/01/05	5.45	5.57
		11.42	11.02 *	11/08/04	6.26	4.76
		11.42	11.02 *	06/15/04	6.26	4.76
		11.42	11.02 *	03/01/04	5.35	5.67
		11.42	11.02 *	12/03/03	6.37	4.65
		11.42	11.02 *	09/16/03	6.49	4.53
		11.42	11.02 *	06/23/03	6.53	4.49
		11.42	11.02 *	04/07/03	6.39	4.63
		11.42	11.02 *	12/10/02	7.04	3.98
		11.42	11.02 *	09/10/02	6.78	4.24
		11.42	11.02 *	06/25/02	8.24	2.78

Table 6-2
Summary of Groundwater Level Measurements at IR Site 5
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M05-10	13.18	12.87 *	04/11/06	NM	NC
		13.18	12.87 *	09/16/03	NM	NC
		13.18	12.87 *	06/23/03	7.18	5.69
		13.18	12.87 *	04/07/03	7.16	5.71
		13.18	12.87 *	12/24/02	7.40 §	5.47
		13.18	12.87 *	09/10/02	7.44	5.43
		13.18	12.87 *	07/11/02	7.20	5.67
First	M10-01 ‡	10.35	10.39 **	04/10/06	3.21	7.18
		10.35	10.39 **	08/22/05	4.50	5.89
		10.35	10.39 **	03/01/05	3.63	6.76
		10.35	10.39 **	11/08/04	4.55	5.84
		10.35	10.39 **	06/15/04	4.42	5.97
		10.35	10.39 **	03/01/04	3.50	6.89
		10.35	10.39 **	12/03/03	4.06	6.33
		10.35	10.39 **	09/16/03	4.31	6.08
		10.35	10.39 **	06/23/03	3.91	6.48
		10.35	10.39 **	04/07/03	3.71	6.68
First	M10-02 ‡	10.75	10.75 **	04/10/06	3.11	7.64
		10.75	10.75 **	08/22/05	4.40	6.35
		10.75	10.75 **	03/01/05	3.60	7.15
		10.75	10.75 **	11/08/04	4.45	6.30
		10.75	10.75 **	06/15/04	4.21	6.54
		10.75	10.75 **	03/01/04	3.32	7.51
		10.75	10.75 **	12/03/03	4.18	6.65
		10.75	10.75 **	09/16/03	4.38	6.45
		10.75	10.75 **	06/23/03	3.90	6.93
		10.75	10.75 **	04/07/03	3.57	7.26
First	M10-03 ‡	9.98	10.04 **	04/10/06	2.95	7.09
		9.98	10.04 **	08/22/05	3.96	6.08
		9.98	10.04 **	03/01/05	3.34	6.70
		9.98	10.04 **	11/08/04	4.15	5.89
		9.98	10.04 **	06/15/04	3.83	6.21
		9.98	10.04 **	03/01/04	2.80	7.24
		9.98	10.04 **	12/03/03	3.35	6.69
		9.98	10.04 **	09/16/03	3.61	6.43
		9.98	10.04 **	06/23/03	3.25	6.79
		9.98	10.04 **	04/08/03	3.96	6.08
First	M116-E ‡	9.40	9.40	04/10/06	NM	NC
		9.40	9.40	08/23/05	NM	NC
		9.40	9.40	08/23/05	4.31	5.09
		9.40	9.40	03/01/05	3.12	6.28
		9.40	9.40	11/08/04	4.31	5.09
		9.40	9.40	06/15/04	4.29	5.11
		9.40	9.40	03/01/04	NM	NC
		9.40	9.40	12/03/03	4.08	5.32
		9.40	9.40	09/16/03	4.50	4.90
		9.40	9.40	06/23/03	4.12	5.28
		9.40	9.40	04/07/03	NM	NC

Table 6-2
Summary of Groundwater Level Measurements at IR Site 5
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M117-E ‡	10.55	10.55	04/10/06	4.05	6.50
		10.55	10.55	08/23/05	5.44	5.11
		10.55	10.55	03/01/05	4.55	6.00
		10.55	10.55	11/08/04	5.43	5.12
		10.55	10.55	06/15/04	5.19	5.36
		10.55	10.55	03/01/04	4.30	6.25
		10.55	10.55	12/03/03	5.50	5.05
		10.55	10.55	09/16/03	6.42	4.13
		10.55	10.55	06/23/03	5.04	5.51
		10.55	10.55	04/07/03	5.04	5.51
First	M12-04	10.79	10.40 *	04/10/06	2.44	7.96
		10.79	10.40 *	08/22/05	3.72	6.68
		10.79	10.40 *	03/01/05	2.96	7.44
		10.79	10.40 *	11/08/04	3.68	6.72
		10.79	10.40 *	06/15/04	3.78	6.62
		10.79	10.40 *	03/01/04	2.91	7.49
		10.79	10.40 *	12/03/03	3.85	6.55
		10.79	10.40 *	09/16/03	4.03	6.37
		10.79	10.40 *	06/23/03	3.71	6.69
		10.79	10.40 *	04/07/03	3.58	6.82
		10.79	10.40 *	12/10/02	4.44	5.96
		10.79	10.40 *	09/10/02	4.36	6.04
		10.79	10.40 *	06/25/02	4.05	6.35
Second	D05-01	12.17	12.02 *	04/10/06	5.62	6.40
		12.17	12.02 *	08/22/05	6.38	5.64
		12.17	12.02 *	03/01/05	6.01	6.01
		12.17	12.02 *	11/08/04	6.54	5.48
		12.17	12.02 *	06/15/04	6.68	5.34
		12.17	12.02 *	03/01/04	6.03	5.99
		12.17	12.02 *	12/03/03	6.94	5.08
		12.17	12.02 *	09/16/03	6.78	5.24
		12.17	12.02 *	06/23/03	6.70	5.32
		12.17	12.02 *	04/07/03	6.91	5.11
		12.17	12.02 *	12/10/02	7.30	4.72
		12.17	12.02 *	09/10/02	7.29	4.73
		12.17	12.02 *	07/12/02	7.21	4.81
Second	D05-03	9.86	9.86	04/10/06	3.02	6.84
		9.86	9.86	08/22/05	4.40	5.46
		9.86	9.86	03/01/05	4.10	5.76
		9.86	9.86	11/08/04	4.75	5.11
		9.86	9.86	06/15/04	4.82	5.04
		9.86	9.86	03/01/04	4.28	5.58
		9.86	9.86	12/03/03	4.55	5.31
		9.86	9.86	09/16/03	4.44	5.42
		9.86	9.86	06/23/03	3.89	5.97
		9.86	9.86	04/07/03	4.81	5.05
		9.86	9.86	09/10/02	5.30	4.56
Second	D05-04	12.67	12.67	04/10/06	7.20	5.47
		12.67	12.67	08/22/05	7.90	4.77
		12.67	12.67	03/01/05	7.49	5.18
		12.67	12.67	11/08/04	8.05	4.62
		12.67	12.67	06/15/04	8.19	4.48

Table 6-2
Summary of Groundwater Level Measurements at IR Site 5
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D05-05	12.07	12.07	04/10/06	6.50	5.57
		12.07	12.07	08/22/05	7.27	4.80
		12.07	12.07	03/01/05	6.80	5.27
		12.07	12.07	11/08/04	7.43	4.64
		12.07	12.07	06/15/04	7.54	4.53
Second	D05-06	11.96	11.96	04/10/06	6.50	5.46
		11.96	11.96	08/22/05	7.31	4.65
		11.96	11.96	03/01/05	7.01	4.95
		11.96	11.96	11/08/04	7.41	4.55
		11.96	11.96	06/15/04	7.54	4.42
Second	D05-07	11.69	11.69	04/10/06	5.72	5.97
		11.69	11.69	08/23/05	6.59	5.10
		11.69	11.69	03/01/05	6.47	5.22
		11.69	11.69	11/08/04	7.02	4.67
		11.69	11.69	06/15/04	7.40	4.29
Second	D05-08	11.10	11.10	04/10/06	5.75	5.35
		11.10	11.10	08/22/05	6.44	4.66
		11.10	11.10	03/01/05	6.62	4.48
		11.10	11.10	11/08/04	6.44	4.66
		11.10	11.10	06/15/04	6.56	4.54
Second	D12-01	10.96	10.76 *	04/10/06	4.50	6.26
		10.96	10.76 *	08/22/05	5.24	5.52
		10.96	10.76 *	03/01/05	5.04	5.72
		10.96	10.76 *	11/08/04	5.75	5.01
		10.96	10.76 *	06/15/04	5.57	5.19
		10.96	10.76 *	03/01/04	5.11	5.65
		10.96	10.76 *	12/03/03	6.10	4.66
		10.96	10.76 *	09/16/03	6.00	4.76
		10.96	10.76 *	06/23/03	5.95	4.81
		10.96	10.76 *	04/07/03	6.22	4.54
		10.96	10.76 *	12/10/02	6.54	4.22
		10.96	10.76 *	09/10/02	6.56	4.20
		10.96	10.76 *	07/12/02	6.25	4.51

Notes:

BTOC = below top of casing

msl = mean sea level

NA = Not available

NC = Groundwater elevation not calculated

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

§ = Measured prior to purging well for sampling

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 6-3

Groundwater Sample Analytical Results at IR Site 5 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	< 50.0	**140**	< 300	**1,200**	**1,340**	< 170	< 170	< 170	< 170	< 170	< 670	< 170	< 170	< 170	< 170	< 170	< 170	< 170	**53.0 J**	< 170	< 170	**1,900**	< 170	**310**	< 170
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**9,400**	**9,400**	< 830	< 830	< 830	< 830	< 830	< 3,300	< 830	< 830	< 830	< 830	< 830	< 830	< 830	**1,500**	< 830	< 830	**18,000**	< 830	**84,000**	< 830
		2005 01 (Spring)	**470 J**	**420 J**	**180 J**	**4,800**	**5,870**	< 200	< 200	< 200	< 200	< 200	< 800	< 200	< 200	< 200	< 200	< 200	< 200	< 200	**440**	< 200	< 200	**9,300**	< 200	**26,000**	< 200
		2004 04 (Winter)	**230 J**	< 250	< 1,500	**13,000**	**13,230**	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 200	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	**84.0**	**720**	**44.0 J**	< 50.0	**10,000**	< 50.0	**51,000**	**36.0 J**
		2004 02 (Summer)	**23.0 J**	< 50.0	< 300	**35,000**	**35,023**	< 310	< 310	< 310	< 310	< 310	< 2,500	< 310	< 310	< 310	< 310	< 310	< 310	**130 J**	**910**	**200 J**	< 310	**11,000**	< 310	**94,000**	< 310
		2004 01 (Spring)	< 190	**230 J**	< 190	**3,800**	**4,030**	**3.0 J**	**3.0 J**	< 10.0	< 10.0	< 10.0	< 20.0	< 50.0	< 10.0	**4.2 J**	< 10.0	< 10.0	**4.0 J**	**79.0**	**3,900**	**21.0**	**5.9 J**	**17,000**	< 5.0	**110,000**	**170**
		2003 04 (Winter)	< 190	< 280	**200**	**7,500**	**7,700**	< 0.50	**6.0**	**0.80 J**	**3.2**	**0.92 J**	**2.1 J**	< 5.0	**0.76 J**	**4.9**	**0.41 J**	**1.2**	**12.0**	**240**	**9,600 J**	**25.0**	**5.4**	**20,000**	< 0.50 UJ	**360,000**	**110**
		2003 03 (Fall)	**150 J**	< 290	**140 J**	**3,170**	**3,460**	**0.46 J**	**2.6**	**0.32 J**	**0.97 J**	**0.27 J**	**1.1 J**	< 5.0	**0.31 J**	**2.2**	**0.38 J**	**0.63 J**	**4.9**	**69.0 J**	**1,900**	**10.0**	< 1.0	**11,000**	< 0.50	**100,000**	**56.0 J**
	M05-01	2005 02 (Summer)	**36.0 J**	< 50.0	< 300	**29.0 J**	**65.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M05-02	2006 01 (Spring)	-	-	-	-	-	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	**4.4**	**0.90**	**14.0**	**0.30 J**	**6.0**	< 0.50	< 0.50	**1.1**
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	**4.0**	< 0.50	**11.0**	**0.20 J**	**4.2**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	**4.8**	< 0.50	**12.0**	< 0.50	**4.9**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	**1.4**	**5.5**	< 0.50	**8.3**	< 0.50	**6.6**	< 0.50	< 0.50	**0.30 J**
		2004 02 (Summer)	-	-	-	-	-	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	**1.3**	**4.5**	< 0.50	**11.0**	**0.10 J**	**3.8**	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	**3.8**	< 1.0	**9.4**	< 1.0	**3.5**	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	**0.24 J**	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	**1.5 J**	**5.6**	< 1.0	**19.0**	< 1.0 UJ	**4.5**	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	**0.26 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	**6.5**	< 1.0	**22.0**	**1.1**	**5.1**	< 0.50	< 1.0	< 0.50
	M05-04	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	**45.0**	**0.80**	**2.8**	< 0.50	**6.8**	< 0.50	**7.7**	**0.20 J**
	M05-05	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**1.6**	**1.4**	**1.0**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	**0.50**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.34 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	**1.6 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.26 J**	**0.80 J**	< 1.0 UJ	**0.80 J**	**0.23 J**	**0.38 J**	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.81 J**	< 1.0	**1.7**	**1.5**	**1.1**	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.62 J**	< 1.0	**0.72 J**	**0.61 J**	**0.46 J**	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-3

Groundwater Sample Analytical Results at IR Site 5 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds								Commonly Detected Chlorinated Hydrocarbons										
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-05	2003 01 (Spring)	< 50.0	< 50.0	< 300	**20.0 J**	**20.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	< 0.50	**0.40 J**	**0.70**	**0.50**	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	**54.0**	< 50.0	**55.0 J**	< 50.0	**109**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.10 J**	< 0.50	**0.10 J**	< 0.50	< 0.50	**0.10 J**	**0.70**	< 0.50	**2.0**	**2.0**	**1.5**	**0.10 J**	< 0.50	**3.0**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**1.9**	**2.2**	**1.9**	< 0.50	< 0.50	**5.9**
	M05-06	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**24.0 J**	< 50.0	< 300	< 50.0	**24.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**36.0 J**	< 50.0	< 300	**19.0 J**	**55.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M05-08	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**67.0**	< 50.0	**79.0 J**	< 50.0	**146**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	< 1.0	**1.2**	< 0.50	**34.0**	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**19.0 J**	**19.0**	< 0.50	**0.20 J**	**0.40 J**	< 0.50	< 0.50 J	**22.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M05-09	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**20.0 J**	< 50.0	< 300	< 50.0	**20.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-3

Groundwater Sample Analytical Results at IR Site 5 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M05-10	2003 02 (Summer)	< 190	< 280 UJ	< 190	**54.0**	**54.0**	**0.21 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	**1.0**	< 1.0	**0.34 J**	**0.23 J**	**1.9**	**2.3**	**2.4**	**0.20 J**	**35.0**	< 0.50	**0.67 J**	**0.85**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.3**	< 0.50	< 0.50	**0.80**	< 0.50	**0.30 J**	< 0.50	**1.9**	**1.9**	**1.3**	< 0.50	**55.0**	< 0.50	**1.2**	**0.60**
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	**0.40 J**	< 0.50 UJ	< 0.50 UJ	**18.0**	< 0.50	**3.0**	< 0.50
	M05-11	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	**2.5**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.10 J**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	**0.30 J**	< 0.50	< 0.50	**1.5**
	M05HW-01	2006 01 (Spring)	**41.0 J**	< 50.0	< 300	< 50.0	**41.0**	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	**5.0**	**0.50**	**1.0**	**2.6**	**12.0**	**0.90**	**4.1**	**2.4**	**6.3**	< 0.50	**0.20 J**	**1.4**
	M10-01	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**0.30 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
	M10-02	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M117-E	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M12-04	2006 01 (Spring)	**33.0 J**	< 50.0	< 300	< 50.0	**33.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**86.0**	< 50.0	**180 J**	< 50.0	**266**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	**8.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	D05-01	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50 J	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D05-03	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	**0.60**	**0.20 J**	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	**0.50**	**0.40 J**	**0.20 J**	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**
		2003 04 (Winter)	< 190	< 280	**140 J**	< 50.0	**140**	< 0.50	< 1.0	**0.84 J**	**0.94 J**	**0.46 J**	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	**1.1**	**0.69 J**	**0.70 J**	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	**2.4**	**3.0**	**1.9**	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**
	D05-04	2006 01 (Spring)	-	-	-	-	-	**0.080 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 6-3

Groundwater Sample Analytical Results at IR Site 5 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D05-04	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	**20.0**	**0.70**	**1.9**	< 0.50	**2.9**	< 0.50	**2.3**	**0.80**
		2004 04 (Winter)	-	-	-	-	-	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	D05-05	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	D05-06	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**1.0**	< 0.50	**0.80**	< 0.50	**0.30 J**	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	< 0.50	**1.2**	< 0.50	**0.70**	< 0.50	**0.30 J**	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	**1.0**	< 0.50	**0.50**	< 0.50	**0.20 J**	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D05-07	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D05-08	2005 02 (Summer)	-	-	-	-	-	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	**0.50 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	**0.80 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D12-01	2006 01 (Spring)	< 50.0	< 50.0	**110 J**	< 50.0	**110**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**25.0 J**	**25.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	**12.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-4

Groundwater Sample Analytical Results at IR Site 5 Group: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether	2-Chlorophenol
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**NA**	**0.20**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	2MW8S	2006 01 (Spring)	**0.45 J**	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	**1.3 J**	< 9.6	< 9.6	< 48.0	< 9.6	**1.6 J**	< 9.6	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5	< 9.5 UJ
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 47.0	< 9.4	< 9.4	< 9.4	< 9.4
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	**0.52 J**	< 9.5	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0 J	< 9.5	< 9.5 J	< 9.5 J	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-4
Groundwater Sample Analytical Results at IR Site 5 Group: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs														
			Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	< 9.6	**3.3 J**	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	**1.4 J**	< 9.5	< 9.5 UJ	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2005 01 (Spring)	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 19.0	< 9.4	< 19.0	< 9.4
		2004 04 (Winter)	< 9.5	**1.3 J**	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5 J	**1.2 J**	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-5

Groundwater Sample Analytical Results at IR Site 5 Group: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs																
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.070 J**	< 0.19	< 0.10	**1.8**	**0.14**	**0.040 J**
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	**0.16 J**	**0.13**	**0.060 J**
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	**0.28**	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.21 J**	< 1.0
		2004 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	**0.25**	**0.090 J**

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-6

Groundwater Sample Analytical Results at IR Site 5 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	NA	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	2MW8S	2006 01 (Spring)	< 1.0	**18.0**	-	< 2.0	**12.0**	**3.5 J**	-	< 10.0	< 10.0	< 3.0	-	< 0.20	-	**17.0 J**	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.12 J	**18.0**	25.0	< 2.0	**5.2**	3.0 J	0.36 J	1.3 J	< 10.0	< 3.0	220	< 0.20	< 20.0	6.7 J	< 5.0	< 5.0	< 5.0	1.0 J	1.5 J	**97.0 J**	1,600	7.3	5.4	8.8	12.0
		2005 01 (Spring)	0.15 J	**18.0**	120	< 2.0	**7.3**	**4.5 J**	0.74 J	< 10.0	10.0	< 3.0	560	< 0.20	2.1 J	**20.0**	< 5.0	< 5.0	**8.3**	1.9 J	**11.0 J**	< 100	**4,300**	40.0	23.0	24.0	510
		2004 04 (Winter)	0.23 J	**16.0**	13.0	< 2.0	**1.7 J**	1.9 J	0.51 J	< 10.0	< 10.0	< 3.0	230	< 0.20	4.0 J	6.6 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	850	9.4	5.7	8.9	87.0
		2004 02 (Summer)	0.10 J	**17.0**	11.0	< 2.0	< 5.0	< 10.0	0.41 J	< 10.0	< 10.0	0.25 J	230	< 0.20	< 20.0	**11.0 J**	< 1.0	< 5.0	< 1.0	< 10.0	**23.0**	10.0 J	660	8.5	5.6	9.0	93.0
		2004 01 (Spring)	< 5.0	**24.2 J**	42.3 J	< 4.0	**5.4**	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	563	**0.31 J**	< 50.0	**25.6**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**2,010**	23.7	16.9	21.9 J	377
		2003 04 (Winter)	< 5.0	**21.1 J**	8.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	289	< 0.40	< 50.0	**19.3 J**	< 20.0	< 10.0	< 5.0	< 50.0	**14.2 J**	< 200	335	16.5	9.7	10.7	120
		2003 03 (Fall)	< 5.0	< 50.0	5.2 J	< 4.0	**3.2 J**	< 10.0	< 10.0	1.6 J	< 20.0	< 10.0	23.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	41.1 J	221	10.4	6.2	8.6 J	75.9
		2005 02 (Summer)	< 1.0	4.7 J	**260**	< 2.0	< 5.0	1.3 J	0.83 J	2.3 J	< 10.0	< 3.0	450	< 0.20	1.0 J	**10.0 J**	**7.8**	< 5.0	< 5.0	2.1 J	**32.0**	< 100	1,400	130	410	110	3,000
		2005 01 (Spring)	0.49 J	< 5.0	42.0	< 2.0	< 5.0	1.6 J	0.15 J	< 10.0	< 10.0	< 3.0	29.0	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 5.0	3.0 J	8.0 J	**230**	320	11.0	13.0	10.0	360
		2004 04 (Winter)	0.50 J	< 5.0	**250**	< 2.0	< 5.0	< 10.0	0.55 J	< 10.0	< 10.0	< 3.0	230	0.078 J	1.4 J	1.5 J	< 5.0	< 5.0	< 5.0	2.2 J	< 20.0	< 100	380	140	270	76.0	2,000
		2004 02 (Summer)	< 1.0	< 1.0	**170**	< 2.0	< 5.0	< 10.0	0.50 J	< 10.0	< 10.0	0.053 J	330	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	**33.0**	< 50.0	760	110	270	92.0	2,100
		2004 01 (Spring)	< 5.0	4.6 J	26.5 J	< 4.0	< 5.0	< 10.0	**5.3 J**	< 10.0	< 20.0	< 10.0	3.6 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	**8.6 J**	**17.5 J**	**220**	301	5.9	13.5	20.7 J	297
		2003 04 (Winter)	< 5.0	< 50.0	**141**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	101 J	< 0.40	**21.3 J**	**14.1 J**	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	115	189	497	188	4,150
		2003 03 (Fall)	< 5.0	6.4 J	**181**	< 4.0	< 5.0	< 10.0	< 10.0	1.3 J	< 20.0	< 10.0	152	< 0.40	< 50.0	4.2 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	181	203	468	133 J	3,460
		2003 02 (Summer)	< 50.0	< 50.0	**249**	< 4.0	< 5.0	< 10.0	< 10.0	1.7 J	< 20.0 UJ	< 10.0	358	< 0.40	5.1 J	2.3 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	681	181	509	124	3,650 J
		2003 01 (Spring)	0.29 J	3.1 J	46.0	< 2.0	< 5.0	< 10.0	< 10.0	1.2 J	< 10.0 UJ	< 3.0	47.0	< 0.20	**7.9 J**	1.5 J	**5.5**	< 5.0	< 1.0	2.6 J	< 20.0	6.2 J	100	24.0	68.0	49.0	930
		2002 04 (Winter)	0.77 J	7.1	120	< 2.0	0.59 J	3.0 J	0.53 J	2.1 J	< 10.0	0.34 J	250	< 0.20	**25.0**	6.3 J	**11.0 J**	< 5.0	< 2.0	4.4 J	1.6 J	**190**	750 J	80.0	230	98.0	2,500
		2002 03 (Fall)	< 50.0	3.0 J	**220**	< 2.0	< 5.0	0.84 J	0.52 J	1.5 J	< 10.0	< 3.0	460	< 0.20	2.4 J	3.1 J	**4.1 J**	< 5.0	< 2.0	1.2 J	< 20.0	< 100	1,500	170	440	150	3,400
		2002 02 (Summer)	0.070 J	7.1	**150**	< 2.0	< 5.0	< 10.0	0.54 J	1.3 J	< 10.0	0.048 J	580	0.059 J	3.2 J	2.1 J	**16.0**	< 5.0	0.034 J	3.7 J	< 20.0	< 100	1,300	110	360	110	3,300
	M05-02	2006 01 (Spring)	< 1.0	< 5.0	**290**	0.25 J	< 5.0	< 10.0	0.75 J	2.2 J	-	< 3.0 UJ	**1,200**	< 0.20	< 20.0	7.1 J	< 5.0	< 5.0	< 5.0	< 10.0	4.8 J	< 100	**3,000**	76.0	200	67.0	1,900
	M05-04	2006 01 (Spring)	< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	2.3 J	< 10.0	< 3.0 UJ	-	< 0.20	-	2.5 J	< 5.0	< 5.0	< 5.0	-	**30.0 J**	-	-	-	-	-	-
	M05-05	2006 01 (Spring)	1.7	5.1	-	< 2.0	< 5.0	**4.3 J**	-	< 10.0	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	3.1 J	-	-	-	-	-	-
		2005 02 (Summer)	0.82 J	4.8 J	**190**	< 2.0	< 5.0	1.8 J	0.56 J	1.1 J	< 10.0	< 3.0	230	< 0.20	4.8 J	5.0 J	1.0 J	< 5.0	< 5.0	2.5 J	**11.0 J**	< 100	290	78.0	33.0	20.0	320
		2005 01 (Spring)	0.86 J	4.1 J	31.0	0.36 J	< 5.0	3.0 J	< 1.0	< 10.0	< 10.0	< 3.0	< 10.0	< 0.20	4.9 J	1.2 J	< 5.0	< 5.0	< 5.0	2.9 J	< 20.0	< 100	11.0 J	25.0	6.4	5.4 J	47.0
		2004 04 (Winter)	< 1.0	4.2 J	94.0	< 2.0	< 5.0	1.1 J	< 1.0	0.55 J	< 10.0	< 3.0	32.0	< 0.20	3.2 J	0.86 J	< 5.0	< 5.0	< 5.0	2.5 J	0.68 J	9.3 J	< 100	48.0 J	16.0	12.0	120
		2004 02 (Summer)	0.35 J	5.5	92.0	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 10.0	0.11 J	39.0	< 0.20	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	8.2 J	< 100	62.0	22.0	16.0	120
		2004 01 (Spring)	< 5.0	< 50.0	69.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	< 10.0	< 0.40	**13.6 J**	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	55.8	16.7	10.9 J	58.7
		2003 04 (Winter)	< 5.0	5.1 J	104	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	102	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.5 J	7.7 J	< 200	< 100	73.9	23.9	15.4	137
		2003 03 (Fall)	< 5.0	< 50.0	16.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	34.4	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	3.7 J	< 200	< 100	10.8	3.7	14.8 J	214
		2003 02 (Summer)	< 50.0	< 50.0	**162**	< 4.0	< 5.0	< 10.0	< 10.0	1.0 J	< 20.0	< 10.0	384	< 0.40	5.4 J	4.5 J	< 20.0	< 10.0	< 5.0	1.9 J	< 20.0	< 200	< 100	87.4	36.6	24.8	229 J
		2003 01 (Spring)	< 1.0	5.8	**150**	< 2.0	< 5.0	2.9 J	< 10.0	0.49 J	< 10.0 UJ	< 3.0	260	< 0.20	4.1 J	3.5 J	< 5.0	< 5.0	< 1.0	3.0 J	1.8 J	6.1 J	190	71.0	27.0	15.0	210
		2002 04 (Winter)	0.67 J	4.6 J	**290**	< 2.0	< 5.0	< 10.0	0.33 J	1.5 J	< 10.0	< 3.0	190	< 0.20	< 20.0	3.4 J	**2.3 J**	< 5.0	< 2.0	3.1 J	3.9 J	< 100	870	170	70.0	19.0	170
		2002 03 (Fall)	< 50.0	**18.0**	**300**	< 2.0	< 5.0	1.3 J	0.86 J	< 10.0	< 10.0	< 3.0	900	< 0.20	5.4 J	**10.0 J**	**4.8 J**	< 5.0	< 2.0	1.9 J	< 20.0	< 100	1,500	120	64.0	33.0	800
		2002 02 (Summer)	0.15 J	**24.0**	**420**	< 2.0	< 5.0	< 10.0	1.3 J	0.93 J	< 10.0	0.22 J	**1,500**	< 0.20	**6.1 J**	**13.0 J**	**6.5**	< 5.0	< 2.0	1.7 J	< 20.0	4.0 J	860	140	89.0	38.0	1,100
	M05-06	2006 01 (Spring)	< 1.0	**11.0**	-	< 2.0	< 5.0	< 10.0	-	2.0 J	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	**23.0**	63.0	< 2.0	< 5.0	1.1 J	0.29 J	1.0 J	< 10.0	< 3.0	300	< 0.20	**6.8 J**	1.8 J	1.8 J	< 5.0	< 5.0	**11.0**	**13.0 J**	9.0 J	150	19.0	52.0	29.0	850
		2004 04 (Winter)	0.15 J	**11.0**	62.0	< 2.0	< 5.0	< 10.0	0.36 J	< 10.0	< 10.0	< 3.0	390	< 0.20	**7.8 J**	< 20.0	< 5.0	< 5.0	< 5.0	8.3 J	< 20.0	< 100	< 100	25.0	64.0	33.0	950

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

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Table 6-6

Groundwater Sample Analytical Results at IR Site 5 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	NA	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	330	103,358	40,552	937,369
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
	M05-06	2004 02 (Summer)	< 1.0	**13.0**	64.0	< 2.0	< 5.0	< 10.0	0.31 J	< 10.0	< 10.0	0.14 J	360	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	**11.0**	7.8 J	< 50.0	120	23.0	57.0	31.0	860
		2003 04 (Winter)	< 5.0	**12.8 J**	85.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	433 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	6.3 J	< 20.0	< 200	89.0 J	27.7	66.7	37.8	1,090
		2003 02 (Summer)	< 50.0	**10.9 J**	74.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	443	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	7.4 J	8.7 J	< 200	61.0 J	27.9	64.8	30.1 J	891
		2003 01 (Spring)	< 1.0	7.2	90.0	< 2.0	< 5.0	< 10.0	< 10.0	0.80 J	< 10.0	< 3.0	450	< 0.20 UJ	**7.1 J**	1.3 J	**3.8 J**	< 5.0	< 1.0	4.3 J	1.7 J	< 100	< 100	29.0	71.0	35.0	940
		2002 03 (Fall)	< 50.0	7.9	83.0	< 2.0	< 5.0	0.74 J	0.32 J	< 10.0	< 10.0	< 3.0	440	< 0.20	**7.3 J**	1.2 J	**4.6 J**	< 5.0	< 2.0	6.3 J	< 20.0	< 100	< 150	26.0	62.0	34.0	1,000
	M05-08	2006 01 (Spring)	< 1.0	**17.0**	-	< 2.0	< 5.0	< 10.0	-	1.1 J	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)	0.27 J	**38.0**	69.0	< 2.0	< 5.0	0.62 J	< 1.0	< 10.0	< 10.0	< 3.0	250	< 0.20	< 20.0	2.3 J	0.55 J	< 5.0	< 5.0	0.56 J	6.4 J	< 100	690	14.0	13.0	13.0	240
		2005 01 (Spring)	0.095 J	**28.0**	49.0	< 2.0	< 5.0	< 10.0	< 1.0	0.39 J	< 10.0	< 3.0	110	< 0.20	3.4 J	1.6 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	170	14.0	12.0	9.0	160
		2004 04 (Winter)	< 1.0	**32.0**	75.0	< 2.0	< 5.0	0.59 J	0.088 J	0.84 J	< 10.0	0.29 J	200	< 0.20	2.8 J	3.5 J	**4.4 J**	< 5.0	< 5.0	1.0 J	8.2 J	4.9 J	540	17.0 J	15.0	13.0	220
		2004 02 (Summer)	0.080 J	**43.0**	86.0	0.44 J	< 5.0	< 10.0	0.11 J	< 10.0	< 10.0	0.40 J	350	< 0.20	< 20.0	1.4 J	< 5.0	< 5.0	< 1.0	< 10.0	**22.0**	< 50.0	850	22.0	21.0	15.0	290
		2004 01 (Spring)	< 5.0	**36.1 J**	112	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	434	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	9.7 J	< 200	985	36.9	25.8	16.8 J	298
		2003 04 (Winter)	< 5.0	**39.6 J**	**141**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	519	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.0 J	< 200	1,190	42.5	27.1	18.9	301
		2003 03 (Fall)	< 5.0	8.0 J	14.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	57.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.2 J	< 200	120	4.1	2.8	15.0 J	281
		2003 02 (Summer)	< 50.0	**33.3 J**	**163**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	687	< 0.40	< 50.0	4.2 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	51.1 J	1,540	50.5	32.5	25.7	263 J
		2003 01 (Spring)	< 1.0	**32.0**	**130**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 3.0	500	< 0.20	< 20.0	4.7 J	< 5.0	< 5.0	< 1.0	< 10.0	2.4 J	< 100	1,100	37.0	26.0	16.0	240
		2002 04 (Winter)	< 50.0	**30.0**	120	< 2.0	< 5.0	< 10.0	0.13 J	0.63 J	< 10.0	0.033 J	310 J	< 0.20	2.0 J	3.8 J	< 5.0 J	< 5.0	< 2.0	< 10.0	3.0 J	< 100	970	26.0	21.0 J	16.0	210
		2002 03 (Fall)	< 50.0	**33.0**	**130**	< 2.0	< 5.0	0.59 J	< 10.0	< 10.0	< 10.0	< 3.0	530	< 0.20	2.1 J	4.2 J	< 5.0 UJ	< 5.0	< 2.6	0.80 J	< 20.0	< 100	1,300	40.0	26.0	15.0	250
		2002 02 (Summer)	< 50.0	**29.0**	**130**	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 10.0 UJ	1.2 J	530	< 0.20	< 20.0	< 20.0	1.5 J	< 5.0 UJ	< 2.0	< 10.0	< 20.0	84.0 J	1,300	36.0	27.0	17.0	250
FWBZ	M05-09	2006 01 (Spring)	< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	1.2 J	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	2.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.19 J	6.7	**310**	< 2.0	< 5.0	1.3 J	0.46 J	1.4 J	< 10.0	0.43 J	320	< 0.20	< 20.0	4.0 J	**2.5 J**	< 5.0	< 5.0	1.9 J	**17.0 J**	< 100	**4,400**	56.0	38.0	22.0	560
		2005 01 (Spring)	0.14 J	< 5.0	90.0	< 2.0	< 5.0	1.4 J	< 1.0	0.97 J	< 10.0	< 3.0	24.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.3 J	< 20.0	< 100	13.0 J	35.0	17.0	6.5	41.0
		2004 04 (Winter)	< 1.0	2.3 J	90.0	< 2.0	< 5.0	0.69 J	0.076 J	1.2 J	< 10.0	0.085 J	27.0	< 0.20	< 20.0	0.86 J	**2.5 J**	< 5.0	**2.6 J**	2.7 J	1.5 J	3.1 J	< 100	36.0 J	16.0	7.9	37.0
		2004 02 (Summer)	0.14 J	**24.0**	**340**	< 2.0	< 5.0	< 10.0	0.92 J	< 10.0	< 10.0	0.061 J	1,100	< 0.20	< 20.0	**10.0 J**	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	410	71.0	93.0	55.0	1,100
		2004 01 (Spring)	< 5.0	< 50.0	107	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	4.5 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	38.3	16.4	6.6 J	46.6
		2003 04 (Winter)	< 5.0	7.6 J	117	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	270	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	6.4 J	< 200	< 100	40.0	19.8	8.9	62.4
		2003 03 (Fall)	< 5.0	< 50.0	12.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	66.2	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	2.8 J	< 200	< 100	35.4	54.6	22.4 J	680
		2003 02 (Summer)	< 50.0	**20.6 J**	**270**	< 4.0	< 5.0	< 10.0	< 10.0	1.2 J	< 20.0 UJ	< 10.0	309	< 0.40	< 50.0	2.8 J	< 20.0	< 10.0	< 5.0	7.0 J	< 20.0	< 200	< 100	52.4	24.3	20.3	420 J
		2003 01 (Spring)	< 1.0	2.0 J	92.0	< 2.0	< 5.0	< 10.0	< 10.0	0.50 J	< 10.0 UJ	< 3.0	22.0	< 0.20	0.40 J	< 20.0	< 5.0	< 5.0	< 1.0	2.2 J	< 20.0	2.9 J	100	35.0	15.0	7.2	40.0
		2002 04 (Winter)	< 50.0	2.3 J	100	< 2.0	< 5.0	< 10.0	0.098 J	0.49 J	< 10.0	< 3.0	20.0	< 0.20	< 20.0	1.1 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	< 200	35.0	15.0	6.8	46.0
		2002 03 (Fall)	< 50.0	2.4 J	91.0	< 2.0	< 5.0	1.1 J	< 10.0	0.78 J	< 10.0	< 3.0	13.0	< 0.20	0.60 J	1.0 J	< 5.0 UJ	< 5.0	< 2.0	3.6 J	< 20.0	< 100	< 100	32.0	13.0	7.7	53.0
		2002 02 (Summer)	0.24 J	< 5.0	80.0	< 2.0	< 5.0	< 10.0	0.047 J	0.44 J	< 10.0	0.039 J	9.8 J	< 0.20	0.80 J	1.0 J	< 5.0	< 5.0	0.13 J	3.7 J	0.91 J	< 100	< 100	30.0	12.0	7.2	57.0
	M05-10	2003 02 (Summer)	< 50.0	**15.6 J**	28.0 J	< 4.0	< 5.0	**36.1**	< 10.0	< 10.0	35.0	< 10.0	58.4	< 0.40	**6.7 J**	5.4 J	< 20.0	< 10.0	< 5.0	2.3 J	< 20.0	66.3 J	199	10.0	2.7	12.4	78.9 J
		2002 04 (Winter)	< 50.0	**16.0**	18.0	< 2.0	< 5.0	**28.0**	0.60 J	1.1 J	< 10.0	< 3.0	31.0	< 0.20	< 20.0	3.9 J	< 5.0	< 5.0	< 2.0	4.1 J	6.0 J	< 100	260	5.8	1.4	9.2	67.0
		2002 02 (Summer)	0.16 J	**13.0 J**	9.9 J	< 2.0	< 5.0	**8.1 J**	0.41 J	< 10.0	< 10.0	0.039 J	18.0	< 0.20	< 20.0	< 20.0	0.38 J	< 5.0	< 2.0	< 10.0	< 20.0	35.0 J	350	3.4	0.83	8.6	42.0
	M05-11	2006 01 (Spring)	< 1.0	< 5.0	-	0.33 J	< 5.0	< 10.0	-	0.78 J	< 10.0	< 3.0 UJ	-	< 0.20	-	7.2 J	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
	M05HW-01	2006 01 (Spring)	< 1.0	4.0 J	-	< 2.0	< 5.0	0.59 J	-	< 10.0	< 10.0	< 3.0	-	< 0.20	-	6.9 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	M10-01	2006 01 (Spring)	< 1.0	6.9	-	< 2.0	< 5.0	< 10.0	-	2.0 J	< 10.0	< 3.0 UJ	-	< 0.20	-	2.5 J	< 5.0	< 5.0	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
	M10-02	2006 01 (Spring)	< 1.0	6.7	-	< 2.0	< 5.0	**3.7 J**	-	< 10.0	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

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Table 6-6

Groundwater Sample Analytical Results at IR Site 5 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	NA	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M117-E	2006 01 (Spring)	< 1.0	11.0	-	< 2.0	< 5.0	2.8 J	-	< 10.0	< 10.0	< 3.0	-	< 0.20	-	1.8 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
	M12-04	2006 01 (Spring)	< 1.0	1.6 J	-	< 2.0	< 5.0	< 10.0	-	2.4 J	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	**50.0**	-	-	-	-	-	-
		2005 02 (Summer)	0.15 J	2.0 J	55.0	< 2.0	0.15 J	0.54 J	0.13 J	0.95 J	< 10.0	< 3.0	140	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	1.2 J	1.6 J	< 100	160	20.0	11.0	8.8	110
		2004 04 (Winter)	< 1.0	1.1 J	93.0	< 2.0	< 5.0	0.45 J	0.18 J	0.78 J	< 10.0	< 3.0	160	< 0.20	1.8 J	1.5 J	< 5.0	< 5.0	< 5.0	1.3 J	1.7 J	< 100	< 100	31.0 J	19.0	11.0	170
		2004 02 (Summer)	< 1.0	< 1.0	55.0	< 2.0	< 5.0	< 10.0	0.17 J	< 10.0	20.0	0.067 J	110	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	**28.0**	< 50.0	65.0 J	25.0	15.0	9.6	120
		2003 04 (Winter)	< 5.0	5.5 J	62.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	94.8	< 0.40	< 50.0	< 20.0	**5.0 J**	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	23.5	14.2	9.8	121
		2003 02 (Summer)	< 50.0	< 50.0	87.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	163	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	37.0	19.0	11.9	116 J
		2002 04 (Winter)	< 50.0	< 5.0	120	< 2.0	0.061 J	< 10.0	0.39 J	1.0 J	< 10.0	0.092 J	190 J	< 0.20	1.2 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	7.2 J	46.0 J	< 310	56.0	27.0 J	10.0	73.0
		2002 02 (Summer)	0.089 J	1.9 J	50.0	< 2.0	< 5.0	< 10.0	0.15 J	0.83 J	< 10.0	0.028 J	88.0	< 0.20	1.8 J	1.0 J	0.42 J	< 5.0	< 2.0	2.4 J	4.2 J	3.2 J	64.0 J	21.0	10.0	9.0	95.0
	D05-01	2006 01 (Spring)	< 1.0	**16.0**	-	0.60 J	< 5.0	< 10.0	-	< 10.0	< 10.0	< 3.0 UJ	-	< 0.20	-	6.8 J	< 5.0	**5.7**	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	1.8 J	58.0	< 2.0	< 5.0	1.1 J	**10.0**	6.0 J	< 10.0	< 3.0	**5,800**	< 0.20	1.5 J	**14.0 J**	**36.0**	< 5.0	< 5.0	0.63 J	**100**	< 100	**3,300**	**710**	1,400	77.0	6,200
		2005 01 (Spring)	< 1.0	< 5.0	49.0	< 2.0	< 5.0	< 10.0	**9.9**	< 10.0	< 10.0	< 3.0	**6,200**	< 0.20	< 20.0	**8.8 J**	< 5.0	< 5.0	< 5.0	< 10.0	**13.0 J**	< 100	630	**800**	1,600	100	7,600
		2004 04 (Winter)	0.17 J	**13.0**	49.0	< 2.0	0.82 J	2.9 J	**11.0**	< 10.0	< 10.0	< 3.0	**6,100**	0.083 J	4.1 J	**10.0 J**	< 5.0	< 5.0	< 5.0	2.4 J	6.7 J	< 100	570	**720**	1,500	90.0	7,200
		2004 02 (Summer)	0.40 J	< 1.0	55.0	< 2.0	< 5.0	0.79 J	**9.4**	< 10.0	< 10.0	0.24 J	**7,200**	< 0.20	< 20.0	**9.0 J**	< 1.0	< 5.0	< 1.0	1.3 J	**17.0 J**	10.0 J	1,000	**930**	1,800	110	8,300
		2004 01 (Spring)	< 5.0	6.3 J	44.3 J	< 4.0	< 5.0	< 10.0	**5.7 J**	< 10.0	< 20.0	< 10.0	**5,540**	< 1.0	**35.6 J**	**12.8 J**	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	695	**920**	1,620	116 J	8,370
		2003 04 (Winter)	< 5.0	< 50.0	48.7 J	< 4.0	< 5.0	< 10.0	**7.2 J**	< 10.0	< 20.0	< 10.0	**4,940**	< 0.40	< 50.0	**13.9 J**	**7.3 J**	< 10.0	< 25.0	5.1 J	< 20.0	< 200	416	**664**	1,550	130	7,550
		2003 03 (Fall)	10.8	< 50.0 UJ	57.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0	< 10.0	**6,860**	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**5,400**	**955**	1,840	106 J	6,890
		2003 02 (Summer)	**22.9 J**	< 50.0	53.8 J	< 4.0	< 5.0	< 10.0	**9.6 J**	1.7 J	< 20.0 UJ	< 10.0	**6,480**	< 0.40	< 50.0	**10.1 J**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	739	**916**	1,800	101	7,410 J
		2003 01 (Spring)	< 1.0	4.5 J	57.0	< 2.0	< 5.0	< 10.0	**8.7 J**	4.1 J	< 10.0	< 3.0	**6,400**	< 0.20	1.6 J	**12.0 J**	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	8.1 J	**2,200**	**780**	1,400	87.0	8,000
		2002 04 (Winter)	< 50.0	< 5.0	61.0	< 2.0	< 5.0	2.5 J	**12.0**	**9.2 J**	< 10.0	0.047 J	**6,900 J**	< 0.20	1.5 J	**26.0**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**5,400**	**1,000**	1,900 J	110	9,300
		2002 03 (Fall)	< 50.0	< 5.0	57.0	< 2.0	< 5.0	0.58 J	**11.0**	5.4 J	< 10.0	< 3.0	**5,400**	< 0.20	1.6 J	**16.0 J**	< 5.0 UJ	< 5.0	< 2.0	0.93 J	< 20.0	< 100	**3,200**	**840**	1,600	89.0	7,600
		2002 02 (Summer)	< 50.0	**8.6**	51.0	< 2.0	< 5.0	**9.3 J**	**11.0**	< 10.0	< 10.0	< 3.0	**5,300**	< 0.20	< 20.0	< 20.0	**28.0 J**	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	380	**830**	1,600	89.0	7,600
SWBZ	D05-03	2006 01 (Spring)	< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	3.4 J	< 10.0	< 3.0 UJ	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	**13.0 J**	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	1.8 J	**210**	< 2.0	< 5.0	2.5 J	**14.0**	6.8 J	< 10.0	< 3.0	**5,700**	< 0.20	0.91 J	**23.0**	**36.0**	0.078 J	< 5.0	0.81 J	**96.0**	1.2 J	**4,000**	**880**	1,500	110 J	8,000
		2004 04 (Winter)	0.15 J	< 5.0	**200**	< 2.0	< 5.0	< 10.0	**15.0**	< 10.0	< 10.0	< 3.0	**6,700**	0.060 J	< 20.0	**15.0 J**	< 5.0	< 5.0	**6.3**	< 10.0	**11.0 J**	< 100	570	**1,100**	1,700	140	9,200
		2004 02 (Summer)	0.63 J	< 1.0	**160**	0.29 J	**2.3 J**	< 200	**13.0**	< 10.0	< 10.0	0.30 J	**8,200**	< 0.20	**6.7 J**	**27.0**	< 5.0	**17.0**	< 1.0	< 200	< 400	< 50.0	780	**1,100**	1,900	140	9,600
		2003 04 (Winter)	< 25.0	< 50.0	**182**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 20.0 UJ	< 10.0	**6,590**	< 0.40	**70.7**	**13.9 J**	< 20.0	< 10.0	< 25.0	**9.9 J**	< 20.0	< 200	1,060	**830**	1,790	172	9,650
		2003 02 (Summer)	< 50.0	< 50.0	**849**	< 4.0	< 5.0	< 10.0	< 10.0	2.4 J	< 20.0 UJ	< 10.0	488	< 0.40	5.1 J	3.2 J	< 20.0	< 10.0	< 5.0	4.9 J	**26.0**	30.4 J	420	39.7	1.8	0.79	18.2 J
		2003 01 (Spring)	0.69 J	0.67 J	110	< 2.0	< 5.0	0.98 J	< 10.0	**15.0**	< 10.0	< 3.0	71.0	< 0.20	0.43 J	3.9 J	< 5.0	< 5.0	< 1.0	3.6 J	**81.0 J**	15.0 J	54.0 J	7.2	0.71	0.47 J	3.6
		2002 03 (Fall)	< 50.0	< 5.0	**180**	< 2.0	< 5.0	0.88 J	2.0 J	4.9 J	< 10.0	< 3.0	**3,400**	< 0.20	0.44 J	**10.0 J**	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**5,000**	**1,200**	1,700	140	9,300
	D12-01	2006 01 (Spring)	< 1.0	**16.0**	-	0.66 J	< 5.0	1.7 J	-	< 10.0	< 10.0	< 3.0 UJ	-	< 0.20	-	**15.0 J**	< 5.0	**7.5**	< 5.0	-	< 20.0 UJ	-	-	-	-	-	-
		2005 02 (Summer)	0.64 J	4.5 J	120	< 2.0	0.39 J	1.4 J	**17.0**	6.7 J	< 10.0	< 3.0	**15,000**	< 0.20	< 20.0	**27.0**	**58.0**	< 5.0	< 5.0	2.9 J	**98.0**	< 100	**5,000**	**1,000**	1,600	150	11,000
		2004 04 (Winter)	< 1.0	< 1,000	**130**	< 400	< 1,000	< 2,000	**16.0**	< 2,000	< 10.0	< 600	**16,000**	< 0.20	< 4,000	< 4,000	< 1,000	< 1,000	< 1,000	< 2,000	< 4,000	< 20,000	< 20,000	**1,100 J**	1,800	170	9,900
		2004 02 (Summer)	0.69 J	< 1.0	110	< 40.0	< 100	< 200	**15.0**	< 10.0	< 10.0	0.44 J	**17,000**	< 0.20	< 20.0	< 400	**3.4 J**	< 100	< 1.0	< 200	< 400	< 50.0	470	**1,100**	1,900	180	12,000
		2003 04 (Winter)	< 25.0	< 50.0	119	< 4.0	< 5.0	< 10.0	**7.2 J**	< 10.0	< 20.0	< 10.0	**12,000 J**	**0.23 J**	< 50.0	**20.2**	< 20.0	< 10.0	< 50.0 UJ	< 50.0	< 20.0	< 200	285	**1,190**	1,830	220	12,300
		2003 02 (Summer)	< 50.0	7.4 J	**143**	< 4.0	< 5.0	< 10.0	**18.7**	1.2 J	< 20.0	< 10.0	**15,200**	< 0.40	< 50.0	**25.5**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	378	**1,100**	1,980	181	11,200 J
		2002 04 (Winter)	0.48 J	< 5.0	< 260	< 2.0	0.28 J	< 10.0	**17.0**	**14.0**	< 10.0	0.090 J	**17,000 J**	< 0.20	0.87 J	**33.0**	< 5.0 UJ	< 5.0	0.59 J	< 10.0	< 20.0	59.0 J	**4,700**	**1,200**	1,800 J	170	< 0.50
		2002 02 (Summer)	0.26 J	< 5.0	120	< 2.0	< 5.0	< 10.0	**18.0**	< 10.0	< 10.0	0.036 J	**12,000**	< 0.20	< 20.0	**16.0 J**	-	< 5.0 UJ	< 2.0	< 10.0	**12.0 J**	3.9 J	67.0 J	**870**	1,700	150	11,000

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table

Groundwater Sample Analytical Results at IR Site 5 Group: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Organochlorine Pesticides															
				Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA
FWBZ	2MW8S	2006 01 (Spring)		< 0.050	< 0.050	< 0.050	**0.040 J**	< 0.050	< 0.050	**0.0060 J**	< 0.10	< 0.10	< 0.10	**0.020 J**	**0.0060 J**	< 0.10	< 0.10	< 0.10	< 0.10
		2005 02 (Summer)		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	< 0.40	< 0.40	< 0.40	< 0.20	< 0.40	< 0.40	< 0.40	< 0.40
		2005 01 (Spring)		**0.0090 J**	< 0.050	**0.10**	**0.030 J**	**0.020 J**	< 0.050	**0.010 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10
		2004 04 (Winter)		< 0.050	< 0.050	**0.30**	< 0.050	< 0.050	< 0.050	**0.0070 J**	< 0.10	< 0.10	**0.010 J**	**0.020 J**	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10
		2004 02 (Summer)		**0.090 J**	< 0.050	**0.20 J**	< 0.050	< 0.050	< 0.050	**0.010 J**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090
	M10-01	2006 01 (Spring)		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 5 Group: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Organochlorine Pesticides				
				Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	**2.0**	**0.010**	**0.010**	**30.0**	**3.0**
			BV:	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**0.0036**	**0.0036**	**NA**	**0.0002**
FWBZ	2MW8S	2006 01 (Spring)		< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)		< 0.40	< 0.20	< 0.20	< 1.9	< 3.8
		2005 01 (Spring)		< 0.10	< 0.050	**0.020 J**	< 0.50	< 1.0
		2004 04 (Winter)		< 0.10	< 0.050	**0.0090 J**	< 0.50	< 1.0
		2004 02 (Summer)		< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
	M10-01	2006 01 (Spring)		< 0.10	< 0.050	< 0.050	< 0.50	< 1.0

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-8
Groundwater Sampling Field Parameters at IR Site 5 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	2MW8S	04/17/06	7.22	0.34	-175
		08/30/05	7.78	0.81	-166
		03/10/05	6.38	0.00	-234
		11/29/04	7.24	0.12	61
		06/28/04	6.84	0.22	-298
		03/08/04	6.78	0.43	-101
		12/10/03	7.00	0.11	220
		10/07/03	7.89	0.34	244
First	M05-01	08/29/05	7.55	1.33	-166
		03/09/05	7.07	3.16	-135
		11/29/04	6.88	0.75	109
		06/28/04	6.97	1.88	-88
		03/08/04	7.55	2.14	57
		12/09/03	6.91	2.39	43
		09/17/03	6.91	1.03	-1.1
		06/27/03	6.98	1.29	122
		04/14/03	7.46	2.42	148
		12/20/02	7.11	7.50	55
		09/12/02	7.02	4.20	-83
		06/25/02	7.37	***110.00***	-70
First	M05-02	04/13/06	6.86	1.74	-110
		08/29/05	8.50	1.42	-160
		03/10/05	6.70	0.17	-155
		11/29/04	7.32	0.61	72
		06/25/04	7.15	0.94	-77
		03/08/04	7.49	0.88	101
		12/22/03	7.53	0.64	-20
		09/23/03	7.59	0.66	-151
First	M05-05	04/18/06	6.18	**10.22**	215
		08/30/05	7.22	0.51	-9.0
		03/10/05	6.80	2.87	-16
		11/30/04	7.46	0.22	181
		06/28/04	7.44	2.20	-16
		03/09/04	7.33	4.08	13.8
		12/10/03	7.45	1.18	195
		09/18/03	7.39	1.16	95
		06/27/03	7.93	1.75	-6.0
		04/14/03	7.30	***16.70***	218
		12/24/02	7.45	4.38	64
		09/12/02	7.13	7.50	-29
		06/25/02	7.24	1.80	-64
First	M05-06	04/13/06	7.05	2.24	60
		08/29/05	7.25	4.86	-110
		11/29/04	7.35	0.67	107
		06/28/04	7.32	0.99	-109
		12/09/03	7.38	0.31	46
		06/26/03	7.93	0.90	-360
		04/24/03	8.12	0.43	166
		09/12/02	7.61	3.50	-27.9
First	M05-08	04/13/06	7.21	3.77	-91

Table 6-8
Groundwater Sampling Field Parameters at IR Site 5 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M05-08	08/30/05	7.92	0.89	-171
		03/10/05	6.42	0.00	-118
		11/30/04	6.78	0.43	98
		06/30/04	7.04	0.39	-128
		03/09/04	7.16	0.36	34
		12/10/03	7.14	0.36	-43
		09/18/03	7.16	0.25	-83
		06/27/03	7.17	0.25	96
		04/16/03	7.16	0.26	-2.0
		12/23/02	7.23	0.53	129
		09/12/02	7.13	4.70	-129
		07/10/02	6.89	7.40	-320
First	M05-09	04/13/06	6.95	6.04	46
		08/30/05	6.41	5.12	-25
		03/10/05	6.55	4.08	21
		11/30/04	7.04	2.85	196
		06/28/04	7.09	0.35	-59
		03/08/04	7.30	4.70	-41
		12/10/03	7.27	2.36	142
		09/18/03	7.33	0.32	26
		06/27/03	7.37	1.29	191
		04/14/03	7.20	***29.10***	142
		12/24/02	6.87	5.72	135
		09/12/02	7.44	***24.90***	5.0
		06/25/02	7.45	3.90	91
First	M05-10		Not measured (abandoned)		
		03/27/03	7.79	0.35	163
		12/24/02	7.83	0.40	-84
		07/11/02	7.40	***19.90***	-66
First	M12-04	04/17/06	6.41	3.06	169
		08/30/05	6.94	0.22	59
		11/30/04	7.11	1.14	155
		06/28/04	7.03	0.51	-95
		12/10/03	7.24	0.71	335
		06/27/03	7.36	0.77	35
		12/17/02	7.47	1.22	27
		06/25/02	7.19	0.27	33
Second	D05-01	04/13/06	6.74	0.4	-87
		08/29/05	7.21	0.79	-125
		03/09/05	6.18	0.00	-124
		11/29/04	6.59	0.14	101
		06/28/04	6.70	0.98	-86
		03/09/04	6.78	0.22	-267
		12/10/03	6.56	0.24	117
		09/17/03	6.76	0.44	65
		06/27/03	6.84	0.17	0.0

Table 6-8
Groundwater Sampling Field Parameters at IR Site 5 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D05-01	04/14/03	6.86	0.37	190
		12/23/02	NM	NM	NM
		09/12/02	6.58	3.20	-41
		07/12/02	6.70	0.28	14.6
Second	D05-03	04/13/06	7.09	9.89	282
		08/29/05	6.61	5.08	-79
		11/29/04	6.56	0.23	115
		06/28/04	6.50	0.18	-117
		12/10/03	6.51	0.28	3.7
		06/27/03	8.22	0.16	59
		04/23/03	7.06	7.33	220
		09/12/02	6.79	***21.50***	-70.2
Second	D05-04	04/13/06	6.62	0.31	12
		08/29/05	7.74	0.72	-197
		11/29/04	6.77	0.39	47
		06/28/04	6.78	0.38	-129
Second	D05-05	04/17/06	6.9	0.77	-225
		08/29/05	7.40	0.70	-278
		11/30/04	6.64	0.32	-234
		06/28/04	6.64	0.33	-98
Second	D05-06	04/13/06	7.05	0.81	-138
		08/29/05	6.11	5.46	-193
		11/30/04	6.72	0.33	-165
		06/29/04	6.78	0.31	-26
Second	D05-07	08/29/05	6.86	4.48	-141
		11/30/04	6.66	0.39	-55
		06/29/04	6.80	0.44	-1.0
Second	D05-08	08/30/05	6.22	4.31	-308
		11/30/04	6.74	0.28	-211
		06/29/04	6.80	0.30	11
Second	D12-01	04/12/06	6.4	0.62	-65
		08/29/05	6.54	0.00	-83
		11/30/04	6.57	0.17	1.4
		06/28/04	6.35	0.23	-124
		12/09/03	6.61	0.24	126
		06/27/03	6.62	1.60	-227
		12/23/02	6.79	NM	-97
		07/12/02	6.52	0.31	293

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 6-9
Groundwater Sample Analytical Results at IR Site 5 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	2MW8S	2006 01 (Spring)	**0.54**	**0.66**	**14.0**	**0.030 J**	< 0.050	**470**	**5.6**	**520**	**520**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	**0.17 J**	**0.18**	**6.1**	< 0.050	< 0.050	**110**	**9.3**	**400**	**400**	< 1.0	< 1.0	< 0.040
		2005 01 (Spring)	**0.59**	**0.83**	**9.9**	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	**0.16**	**0.073**	**6.7**	< 0.050	< 0.050	**60.0**	**11.0**	**140**	**140**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	**0.10**	**0.10**	**7.0**	**0.010 J**	< 0.050	**62.0**	**14.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2004 01 (Spring)	**0.16**	**0.46**	**2.8**	-	-	-	-	-	-	-	-	-
		2003 04 (Winter)	**0.14**	**0.23**	**3.5**	< 0.10	< 0.10	**113**	**15.2**	**155**	**155**	< 5.0	-	< 1.0
		2003 03 (Fall)	**0.033**	**0.079**	**1.3**	< 0.10	< 0.10	**62.1**	**19.8**	**114**	-	-	-	< 1.0
	M05-01	2005 02 (Summer)	< 0.0050	< 0.0050	**4.6**	**740**	< 1.0	**6,800**	**1,900**	**450**	**450**	< 1.0	< 1.0	**0.12**
		2004 04 (Winter)	< 0.0050	< 0.0050	**2.4**	< 0.25	< 0.50	**4,000**	**430**	**450**	**450**	< 1.0	< 1.0	**0.12**
		2004 02 (Summer)	< 0.010	< 0.010	**1.7**	< 0.25	< 0.50	**3,400**	**380**	**490**	**490**	< 1.0	< 1.0	**0.060**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.28**	< 1.0	-	**7,830**	**1,050**	**303**	**303**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.64**	< 1.0	< 10.0 UJ	**7,250**	**782**	**349**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.35**	< 0.25	< 0.50	**3,300**	**420**	**290**	**290**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**2.2 J**	< 0.25	< 0.25	**5,200**	**480**	**540**	**540**	< 1.0	< 1.0	**0.29**
	M05-04	2006 01 (Spring)	< 0.0050	< 0.0050	**2.7**	**1.6**	< 0.050	**400**	**120**	**500**	**500**	< 1.0	< 1.0	< 0.040
	M05-05	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.87**	< 0.050	**13.0**	**15.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	**0.0080 J**	< 0.0050	**0.32**	**0.95**	< 0.10	**590**	**50.0**	**260**	**260**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.48**	**0.29**	< 0.050	**180**	**28.0**	**220**	**220**	< 1.0	< 1.0	**0.11**
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**1.0**	< 0.050	**120**	**35.0**	**170**	**170**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.012**	**1.0**	< 0.10	**241**	**57.1**	**225**	**225**	< 5.0	-	< 1.0
		2003 02 (Summer)	**0.0016 J**	< 0.0030	**0.048**	**0.99**	< 1.0	**443**	**58.5**	**229**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.023**	**1.3 J**	< 0.050	**590**	**82.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	**0.018 J**	< 0.010	**2.8 J**	**0.73**	< 0.10	**1,100**	**94.0**	**320**	**320**	< 1.0	< 1.0	< 0.040
	M05-08	2006 01 (Spring)	< 0.0050	< 0.0050	**1.4**	**0.46**	< 0.050	**130**	**15.0**	**220**	**220**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**2.3**	**0.040 J**	< 0.050	**240**	**12.0**	**210**	**210**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**2.3**	**0.25**	< 0.050	**200**	**20.0**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**2.2**	**0.040 J**	< 0.050	**300**	**16.0**	**280**	**280**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**1.8**	**0.31**	< 0.10	**316**	**32.5**	**245**	**245**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.81**	< 0.10	< 1.0	**475**	**16.8**	**311**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**1.0**	**0.17**	< 0.050	**300**	**34.0**	**250**	**250**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.57**	**0.15**	< 0.050	**370**	**31.0**	**240**	**240**	< 1.0	< 1.0	-
	M05-09	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.19**	< 0.050	**12.0**	**22.0**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**4.5**	**0.060**	< 0.10	**610**	**19.0**	**410**	**410**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0060**	**0.11**	< 0.050	**33.0**	**20.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**9.8**	< 0.10	< 0.25	**1,500**	**0.36 J**	**710**	**710**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.015**	**0.15**	< 0.10	**54.7**	**28.8**	**220**	**220**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**2.0**	**0.27**	< 1.0	**595**	**12.4**	**370**	-	-	-	< 1.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-9
Groundwater Sample Analytical Results at IR Site 5 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M05-09	2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**0.040 J**	< 0.050	**38.0**	**22.0**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.080**	< 0.050	**19.0**	**20.0**	**200**	**200**	< 1.0	< 1.0	< 0.040
	M05-10	2003 02 (Summer)	**0.0035**	< 0.0030	**0.78**	**0.15 J**	< 0.10	**43.7 J**	**17.0**	**158**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.63**	**0.11 J**	< 0.050	**29.0**	**19.0**	**130**	**130**	< 1.0	< 1.0	**0.070**
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.090**	< 0.050 J	**13.0**	**20.0**	**59.0**	**59.0**	< 1.0	< 1.0	< 0.040
	M05-11	2006 01 (Spring)	**0.0030 J**	< 0.0050	**16.0**	< 0.50	< 1.0	**6,500**	< 5.0	**1,400**	**1,400**	< 1.0	< 1.0	< 0.040
	M05HW-01	2006 01 (Spring)	< 0.0050	**0.0090**	**1.4**	**1.2**	< 0.050	**260**	**39.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
	M10-01	2006 01 (Spring)	< 0.0050	< 0.0050	**0.022**	**0.030 J**	< 0.050	**98.0**	**23.0**	**220**	**220**	< 1.0	< 1.0	< 0.040
	M10-02	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.50**	< 0.050	**11.0**	**17.0**	**120**	**120**	< 1.0	< 1.0	< 0.040
	M117-E	2006 01 (Spring)	**0.18**	**0.21**	**4.8**	< 0.050	< 0.10	**620**	**7.5**	**470**	**470**	< 1.0	< 1.0	**0.16**
	M12-04	2006 01 (Spring)	< 0.0050	< 0.0050	**0.011**	**0.46**	< 0.050	**150**	**49.0**	**110**	**110**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.015**	**0.33**	< 0.050	**130**	**37.0**	**150**	**150**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.041**	**0.63**	< 0.050	**220**	**50.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.022**	**0.57**	< 0.050	**120**	**40.0**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.020**	**0.78**	< 0.10	**120**	**43.7**	**197**	**197**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.041**	**0.49**	< 0.10	**86.9**	**38.5**	**158**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.066**	**0.77**	< 0.050	**170**	**46.0**	**130**	**130**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.028 J**	**0.64**	< 0.050	**79.0**	**35.0**	**160**	**160**	< 1.0	< 1.0	< 0.040
SWBZ	D05-01	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0050**	< 1.0	< 2.5	**15,000**	**2,400**	**910**	**910**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0060**	< 1.0	< 2.5	**16,000**	**2,500**	**900**	**900**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0070**	< 1.3	< 2.5	**17,000**	**2,500**	**860**	**860**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	**16,000**	**2,400**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0089**	< 1.0	< 1.0	**3,000**	**391**	**1,080**	**1,080**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0033**	< 1.0	< 50.0 UJ	**18,600**	**2,510**	**867**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	**16,000**	**2,700**	**850**	**850**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**16,000**	**2,400**	**910**	**910**	< 1.0	< 1.0	< 0.040
	D05-04	2006 01 (Spring)	-	-	-	< 1.0	< 2.5	**18,000**	**3,000**	**570**	**570**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	-	-	-	**0.23**	< 0.15	**1,200**	**39.0**	**510**	**510**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**20,000**	**2,900**	**680**	**680**	< 1.0	< 1.0	**0.060**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**19,000**	**3,000**	**660**	**660**	< 1.0	< 1.0	**0.23**
	D05-05	2006 01 (Spring)	-	-	-	< 1.0	< 2.5	**18,000**	**3,000**	**510**	**510**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**19,000**	**3,400**	**730**	**730**	< 1.0	< 1.0	**0.74**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**19,000**	**3,200**	**640**	**640**	< 1.0	< 1.0	**5.3**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**19,000**	**3,200**	**600**	**600**	< 1.0	< 1.0	**0.37**
	D05-06	2006 01 (Spring)	-	-	-	< 1.0	< 2.5	**18,000**	**3,300**	**520**	**520**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	-	-	-	< 1.0	< 2.5	**18,000**	**3,200**	**590**	**590**	< 1.0	< 1.0	**0.10 J**
		2004 04 (Winter)	-	-	-	< 1.3	< 2.5	**20,000**	**3,500**	**610**	**610**	< 1.0	< 1.0	**0.090**
		2004 02 (Summer)	-	-	-	< 1.3	< 2.5	**20,000**	**3,400**	**560**	**560**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 6-9
Groundwater Sample Analytical Results at IR Site 5 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Dissolved Gases			Anions				Alkalinity				Sulfide
				Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
			Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D05-07	2005 02 (Summer)		-	-	-	< 1.3	< 2.5	**20,000**	**3,400**	**560**	**560**	< 1.0	< 1.0	**0.30**
		2004 04 (Winter)		-	-	-	< 1.3	< 2.5	**21,000**	**3,300**	**560**	**560**	< 1.0	< 1.0	**0.090**
		2004 02 (Summer)		-	-	-	< 1.3	< 2.5	**20,000**	**3,100**	**510**	**510**	< 1.0	< 1.0	< 0.040
	D05-08	2005 02 (Summer)		-	-	-	< 1.3	< 2.5	**19,000**	**3,100**	**580**	**580**	< 1.0	< 1.0	**0.17 J**
		2004 04 (Winter)		-	-	-	< 1.3	< 2.5	**21,000**	**3,300**	**580**	**580**	< 1.0	< 1.0	**11.0**
		2004 02 (Summer)		-	-	-	< 1.3	< 2.5	**20,000**	**3,100**	**550**	**550**	< 1.0	< 1.0	< 0.040
	D12-01	2006 01 (Spring)		< 0.0050	< 0.0050	< 0.0050	< 1.3	< 2.5	**22,000**	**2,500**	**840**	**840**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)		< 0.0050	< 0.0050	< 0.0050	< 1.3	< 2.5	**22,000**	**2,800**	**1,300**	**1,300**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**0.0030 J**	< 1.3	< 2.5	**24,000**	**2,500**	**770**	**770**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	**23,000**	**2,500**	**810**	**810**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**0.0044**	< 1.0	-	**24,300 J**	**2,240**	**866**	**866**	< 5.0	-	< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.0015 J**	< 1.0	< 50.0 UJ	**26,000**	**2,590**	**780**	-	-	-	< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	< 0.010	< 2.5	< 2.5	**23,000**	**2,500**	**800**	**800**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**23,000**	**2,600**	**790**	**790**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Benzene (UG/L)	4	14	2.5	M05-11	13 Apr 2006	3.0 J	2MW8S	2004 01 (Spring)
TPH-Diesel (UG/L)	4	13	41.0 J	M05HW-01	17 Apr 2006	470 J	2MW8S	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	3	14	2.6	M05HW-01	17 Apr 2006	12.0	2MW8S	2003 04 (Winter)
TPH-Jet Fuel (UG/L)	1	13	140	2MW8S	17 Apr 2006	420 J	2MW8S	2005 01 (Spring)
Toluene (UG/L)	1	14	0.10 J	M05-11	13 Apr 2006	6.0	2MW8S	2003 04 (Winter)
Trichloroethene (UG/L)	5	14	45.0	M05-04	13 Apr 2006	240	2MW8S	2003 04 (Winter)
1,1-Dichloroethene (UG/L)	4	14	1500	2MW8S	30 Aug 2005	9600 J	2MW8S	2003 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	5	14	14.0	M05-02	13 Apr 2006	200 J	2MW8S	2004 02 (Summer)
TPH-Gasoline (UG/L)	2	13	9400	2MW8S	30 Aug 2005	35000	2MW8S	2004 02 (Summer)
trans-1,2-Dichloroethene (UG/L)	4	14	2.4	M05HW-01	17 Apr 2006	5.9 J	2MW8S	2004 01 (Spring)
1,1-Dichloroethane (UG/L)	7	14	18000	2MW8S	30 Aug 2005	20000	2MW8S	2003 04 (Winter)
Carbon Disulfide (UG/L)	1	14	0.30 J	M12-04	17 Apr 2006	32.0 J	2MW8S	2003 04 (Winter)
1,1,1-Trichloroethane (UG/L)	3	14	84000	2MW8S	30 Aug 2005	360000	2MW8S	2003 04 (Winter)
Chlorobenzene (UG/L)	1	14	0.30 J	M05HW-01	17 Apr 2006	0.76 J	2MW8S	2003 04 (Winter)
1,2-Dichlorobenzene (UG/L)	3	14	5.0	M05HW-01	17 Apr 2006	4.9	2MW8S	2003 04 (Winter)
Chloroethane (UG/L)	2	14	25000	2MW8S	17 Apr 2006	25000	2MW8S	2005 01 (Spring)
Vinyl Chloride (UG/L)	4	14	1.5	M05-11	13 Apr 2006	170	2MW8S	2004 01 (Spring)
1,3-Dichlorobenzene (UG/L)	2	14	0.50	M05HW-01	17 Apr 2006	0.41 J	2MW8S	2003 04 (Winter)
Chloroform (UG/L)	1	14	1.2	M05-04	13 Apr 2006	14.0	M05-10	2002 02 (Summer)
1,4-Dichlorobenzene (UG/L)	1	14	1.0	M05HW-01	17 Apr 2006	1.2	2MW8S	2003 04 (Winter)
1,2-Dichloropropane (UG/L)	1	14	0.30 J	M10-01	13 Apr 2006	--	NA	NA
Isopropyl Ether (UG/L)	4	14	0.60	M05-11	13 Apr 2006	1.2	M05-02	2004 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	1	14	0.70 J	M05-02	13 Apr 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	8	1.2 J	D05-05	29 Aug 2005	5.4 J	D05-06	2004 04 (Winter)
Benzene (UG/L)	2	8	0.20 J	D05-08	30 Aug 2005	0.50 J	D05-08	2004 04 (Winter)
Tetrachloroethene (PCE) (UG/L)	1	8	0.20 J	D05-04	29 Aug 2005	--	NA	NA
Trichloroethene (UG/L)	2	8	20.0	D05-04	29 Aug 2005	2.1	D05-06	2004 04 (Winter)
1,1-Dichloroethene (UG/L)	1	8	0.70	D05-04	29 Aug 2005	--	NA	NA
TPH-Motor Oil (UG/L)	1	3	110 J	D12-01	12 Apr 2006	140 J	D05-03	2003 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	2	8	1.9	D05-04	29 Aug 2005	1.0	D05-06	2004 04 (Winter)
TPH-Gasoline (UG/L)	1	3	25.0 J	D12-01	29 Aug 2005	--	NA	NA
1,1-Dichloroethane (UG/L)	2	8	2.9	D05-04	29 Aug 2005	0.50	D05-06	2004 04 (Winter)
Carbon Disulfide (UG/L)	4	8	6.2	D05-06	30 Aug 2005	3.8	D05-06	2004 04 (Winter)
1,1,1-Trichloroethane (UG/L)	2	8	2.3	D05-04	29 Aug 2005	0.20 J	D05-06	2004 04 (Winter)
Chloroethane (UG/L)	1	8	0.60 J	D05-04	29 Aug 2005	--	NA	NA
Vinyl Chloride (UG/L)	1	8	0.80	D05-04	29 Aug 2005	0.70	D05-03	2002 03 (Fall)
Chloroform (UG/L)	2	8	0.80	D05-06	30 Aug 2005	10.0	D05-06	2004 02 (Summer)
2-Hexanone (UG/L)	1	8	0.50 J	D05-05	29 Aug 2005	1.4 J	D05-05	2004 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	1	8	0.70 J	D05-01	13 Apr 2006	1.9 J	D05-05	2004 04 (Winter)
Methyl isobutyl ketone (MIBK) (UG/L)	1	8	0.20 J	D05-05	29 Aug 2005	0.40 J	D05-05	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
Acenaphthene (UG/L)	1	1	0.45 J	2MW8S	17 Apr 2006	--	NA	NA
Naphthalene (UG/L)	1	14	1.8	2MW8S	17 Apr 2006	22.0	M05-08	2002 04 (Winter)
bis(2-Chloroethyl)ether (UG/L)	1	1	1.6 J	2MW8S	17 Apr 2006	0.52 J	2MW8S	2004 04 (Winter)
1,2-Dichlorobenzene (UG/L)	3	14	5.0	M05HW-01	17 Apr 2006	4.9	2MW8S	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (First Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Fluoranthene (UG/L)	1	1	0.070 J	2MW8S	17 Apr 2006	--	NA	NA
Naphthalene (UG/L)	1	14	1.8	2MW8S	17 Apr 2006	22.0	M05-08	2002 04 (Winter)
Phenanthrene (UG/L)	1	1	0.14	2MW8S	17 Apr 2006	0.28	2MW8S	2005 01 (Spring)
Pyrene (UG/L)	1	1	0.060 J	2MW8S	30 Aug 2005	0.090 J	2MW8S	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	5	14	1.7	M05-05	18 Apr 2006	0.86 J	M05-05	2005 01 (Spring)
Arsenic (UG/L)	11	14	38.0	M05-08	30 Aug 2005	43.0	M05-08	2004 02 (Summer)
Barium (UG/L)	8	8	310	M05-09	30 Aug 2005	420	M05-05	2002 02 (Summer)
Beryllium (UG/L)	2	14	0.33 J	M05-11	13 Apr 2006	0.44 J	M05-08	2004 02 (Summer)
Cadmium (UG/L)	2	14	12.0	2MW8S	17 Apr 2006	7.3	2MW8S	2005 01 (Spring)
Chromium (UG/L)	10	14	4.3 J	M05-05	18 Apr 2006	36.1	M05-10	2003 02 (Summer)
Cobalt (UG/L)	7	8	0.83 J	M05-01	29 Aug 2005	5.3 J	M05-01	2004 01 (Spring)
Copper (UG/L)	11	14	2.4 J	M12-04	17 Apr 2006	2.1 J	M05-01	2002 04 (Winter)
Lead (UG/L)	1	14	0.43 J	M05-09	30 Aug 2005	1.2 J	M05-08	2002 02 (Summer)
Manganese (UG/L)	8	8	1200	M05-02	13 Apr 2006	1500	M05-05	2002 02 (Summer)
Molybdenum (UG/L)	3	8	6.8 J	M05-06	29 Aug 2005	25.0	M05-01	2002 04 (Winter)
Nickel (UG/L)	13	14	17.0 J	2MW8S	17 Apr 2006	25.6	2MW8S	2004 01 (Spring)
Selenium (UG/L)	5	14	7.8	M05-01	29 Aug 2005	16.0	M05-01	2002 02 (Summer)
Vanadium (UG/L)	7	8	11.0	M05-06	29 Aug 2005	11.0	M05-06	2004 02 (Summer)
Zinc (UG/L)	9	14	50.0	M12-04	17 Apr 2006	33.0	M05-01	2004 02 (Summer)
Aluminum (UG/L)	2	8	97.0 J	2MW8S	30 Aug 2005	230	M05-01	2005 01 (Spring)
Iron (UG/L)	8	8	4400	M05-09	30 Aug 2005	4300	2MW8S	2005 01 (Spring)
Calcium (MG/L)	8	8	180	M05-01	29 Aug 2005	203	M05-01	2003 03 (Fall)
Magnesium (MG/L)	8	8	410	M05-01	29 Aug 2005	509	M05-01	2003 02 (Summer)
Potassium (MG/L)	8	8	110	M05-01	29 Aug 2005	188	M05-01	2003 04 (Winter)
Sodium (MG/L)	8	8	3000	M05-01	29 Aug 2005	4150	M05-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	1	3	0.64 J	D12-01	29 Aug 2005	22.9 J	D05-01	2003 02 (Summer)
Arsenic (UG/L)	3	3	16.0	D05-01	13 Apr 2006	13.0	D05-01	2004 04 (Winter)
Barium (UG/L)	3	3	210	D05-03	29 Aug 2005	849	D05-03	2003 02 (Summer)
Beryllium (UG/L)	2	3	0.66 J	D12-01	12 Apr 2006	0.29 J	D05-03	2004 02 (Summer)
Cadmium (UG/L)	1	3	0.39 J	D12-01	29 Aug 2005	2.3 J	D05-03	2004 02 (Summer)
Chromium (UG/L)	3	3	2.5 J	D05-03	29 Aug 2005	9.3 J	D05-01	2002 02 (Summer)
Cobalt (UG/L)	3	3	17.0	D12-01	29 Aug 2005	18.7	D12-01	2003 02 (Summer)
Copper (UG/L)	3	3	6.8 J	D05-03	29 Aug 2005	15.0	D05-03	2003 01 (Spring)
Manganese (UG/L)	3	3	15000	D12-01	29 Aug 2005	17000	D12-01	2004 02 (Summer)
Molybdenum (UG/L)	2	3	1.5 J	D05-01	29 Aug 2005	70.7	D05-03	2003 04 (Winter)
Nickel (UG/L)	3	3	27.0	D12-01	29 Aug 2005	33.0	D12-01	2002 04 (Winter)
Selenium (UG/L)	3	3	58.0	D12-01	29 Aug 2005	28.0 J	D05-01	2002 02 (Summer)
Silver (UG/L)	3	3	7.5	D12-01	12 Apr 2006	17.0	D05-03	2004 02 (Summer)
Vanadium (UG/L)	3	3	2.9 J	D12-01	29 Aug 2005	9.9 J	D05-03	2003 04 (Winter)
Zinc (UG/L)	3	3	100	D05-01	29 Aug 2005	81.0 J	D05-03	2003 01 (Spring)
Aluminum (UG/L)	1	3	1.2 J	D05-03	29 Aug 2005	59.0 J	D12-01	2002 04 (Winter)
Iron (UG/L)	3	3	5000	D12-01	29 Aug 2005	5400	D05-01	2003 03 (Fall)
Calcium (MG/L)	3	3	1000	D12-01	29 Aug 2005	1200	D12-01	2002 04 (Winter)
Magnesium (MG/L)	3	3	1600	D12-01	29 Aug 2005	1980	D12-01	2003 02 (Summer)
Potassium (MG/L)	3	3	150	D12-01	29 Aug 2005	220	D12-01	2003 04 (Winter)
Sodium (MG/L)	3	3	11000	D12-01	29 Aug 2005	12300	D12-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (First Water-Bearing Zone)								
Organochlorine Pesticides								
delta-BHC (UG/L)	1	2	0.040 J	2MW8S	17 Apr 2006	0.030 J	2MW8S	2005 01 (Spring)
gamma-Chlordane (UG/L)	1	2	0.0060 J	2MW8S	17 Apr 2006	0.010 J	2MW8S	2005 01 (Spring)
Dieldrin (UG/L)	1	2	0.020 J	2MW8S	17 Apr 2006	0.020 J	2MW8S	2004 04 (Winter)
Endosulfan I (UG/L)	1	2	0.0060 J	2MW8S	17 Apr 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	12	12	1400	M05-11	13 Apr 2006	710	M05-09	2004 02 (Summer)
Sulfide (MG/L)	2	12	0.16	M117-E	17 Apr 2006	0.29	M05-01	2002 02 (Summer)
Alkalinity, bicarbonate (MG/L)	12	12	1400	M05-11	13 Apr 2006	710	M05-09	2004 02 (Summer)
Ethane (MG/L)	4	12	0.54	2MW8S	17 Apr 2006	0.59	2MW8S	2005 01 (Spring)
Ethene (MG/L)	3	12	0.66	2MW8S	17 Apr 2006	0.83	2MW8S	2005 01 (Spring)
Methane (MG/L)	11	12	16.0	M05-11	13 Apr 2006	9.9	2MW8S	2005 01 (Spring)
Nitrate (MG/L)	10	12	740	M05-01	29 Aug 2005	1.3 J	M05-05	2002 04 (Winter)
Chloride (MG/L)	12	12	6800	M05-01	29 Aug 2005	7830	M05-01	2003 04 (Winter)
Sulfate (as SO4) (MG/L)	11	12	1900	M05-01	29 Aug 2005	1050	M05-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

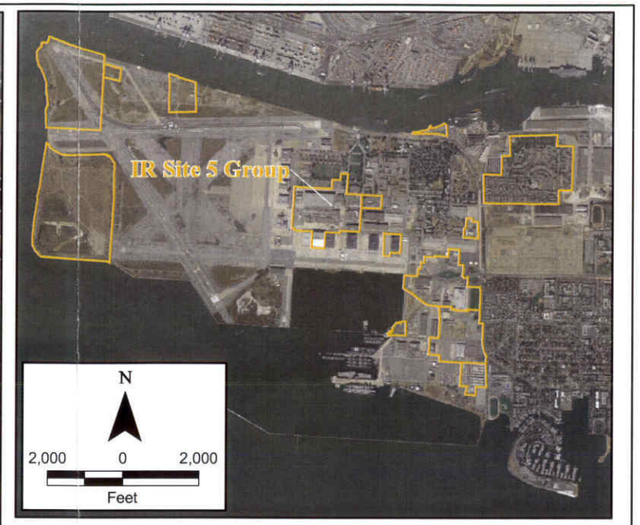
Table 6-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 5 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 5 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	1300	D12-01	29 Aug 2005	1080	D05-01	2003 04 (Winter)
Sulfide (MG/L)	4	7	0.74	D05-05	29 Aug 2005	11.0	D05-08	2004 04 (Winter)
Alkalinity, bicarbonate (MG/L)	7	7	1300	D12-01	29 Aug 2005	1080	D05-01	2003 04 (Winter)
Methane (MG/L)	1	2	0.0060	D05-01	29 Aug 2005	0.0089	D05-01	2003 04 (Winter)
Nitrate (MG/L)	1	7	0.23	D05-04	29 Aug 2005	--	NA	NA
Chloride (MG/L)	7	7	22000	D12-01	29 Aug 2005	26000	D12-01	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	7	7	3400	D05-05	29 Aug 2005	3500	D05-06	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

300 0 300

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004 National Geospatial-Intelligence Agency (NGA)

Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
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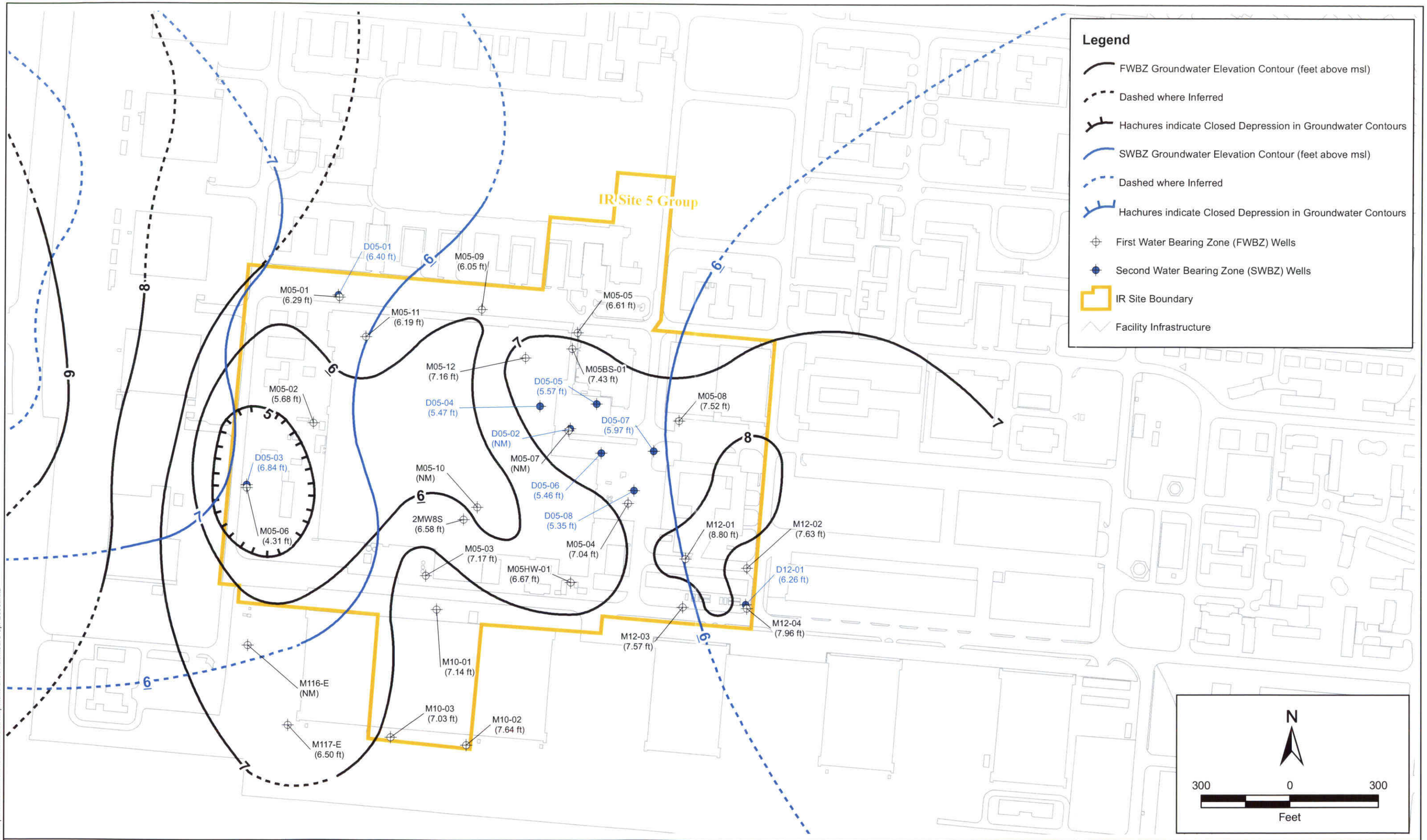
FIGURE 6-1
IR SITE 5 GROUP
SITE AND WELL LOCATION MAP

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Site 5 Group\Annual 5 Group Location Map_NAD83.mxd



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 5 GW Contours Spr 2006.mxd

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FIGURE 6-2
IR SITE 5
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

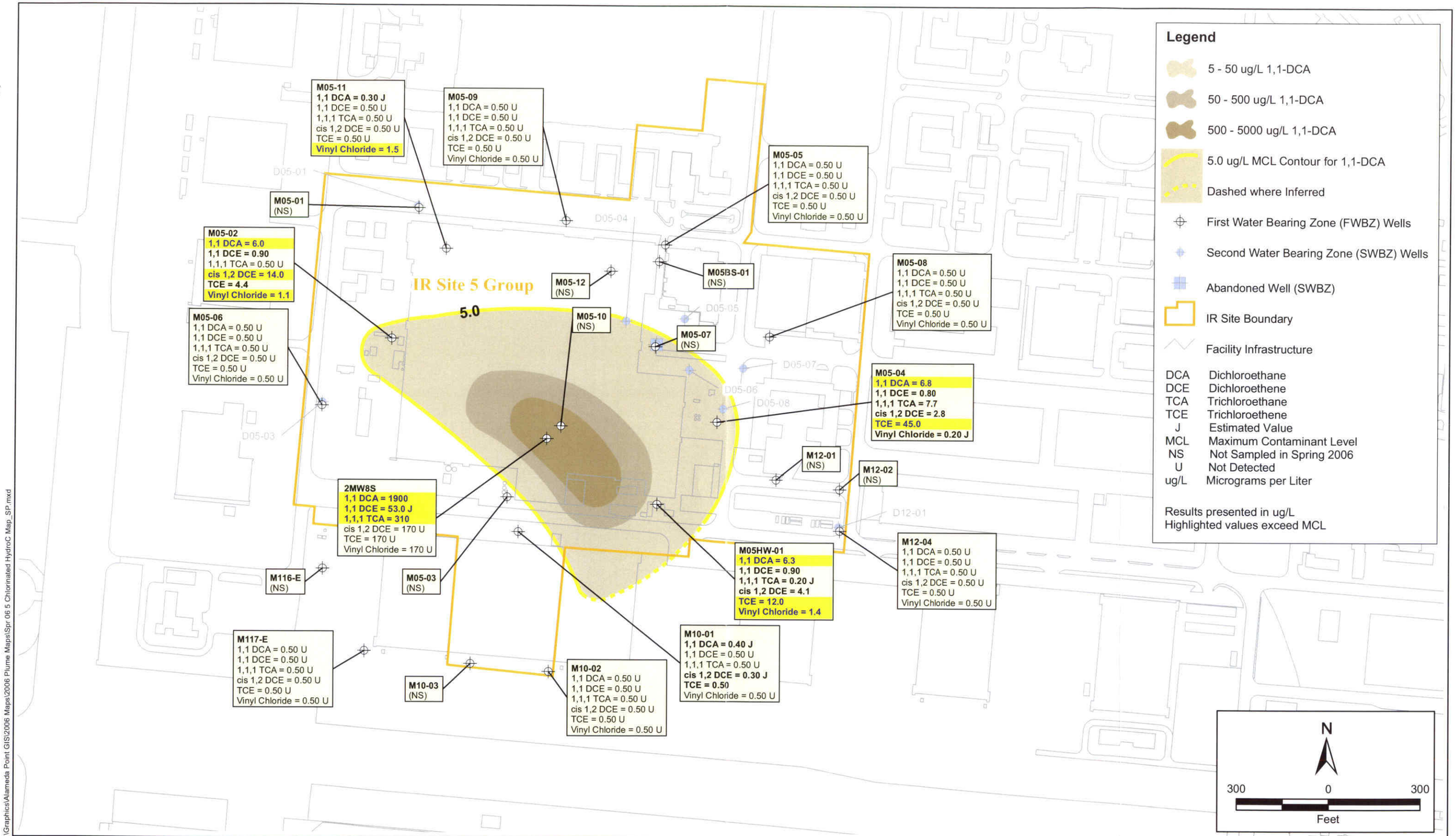

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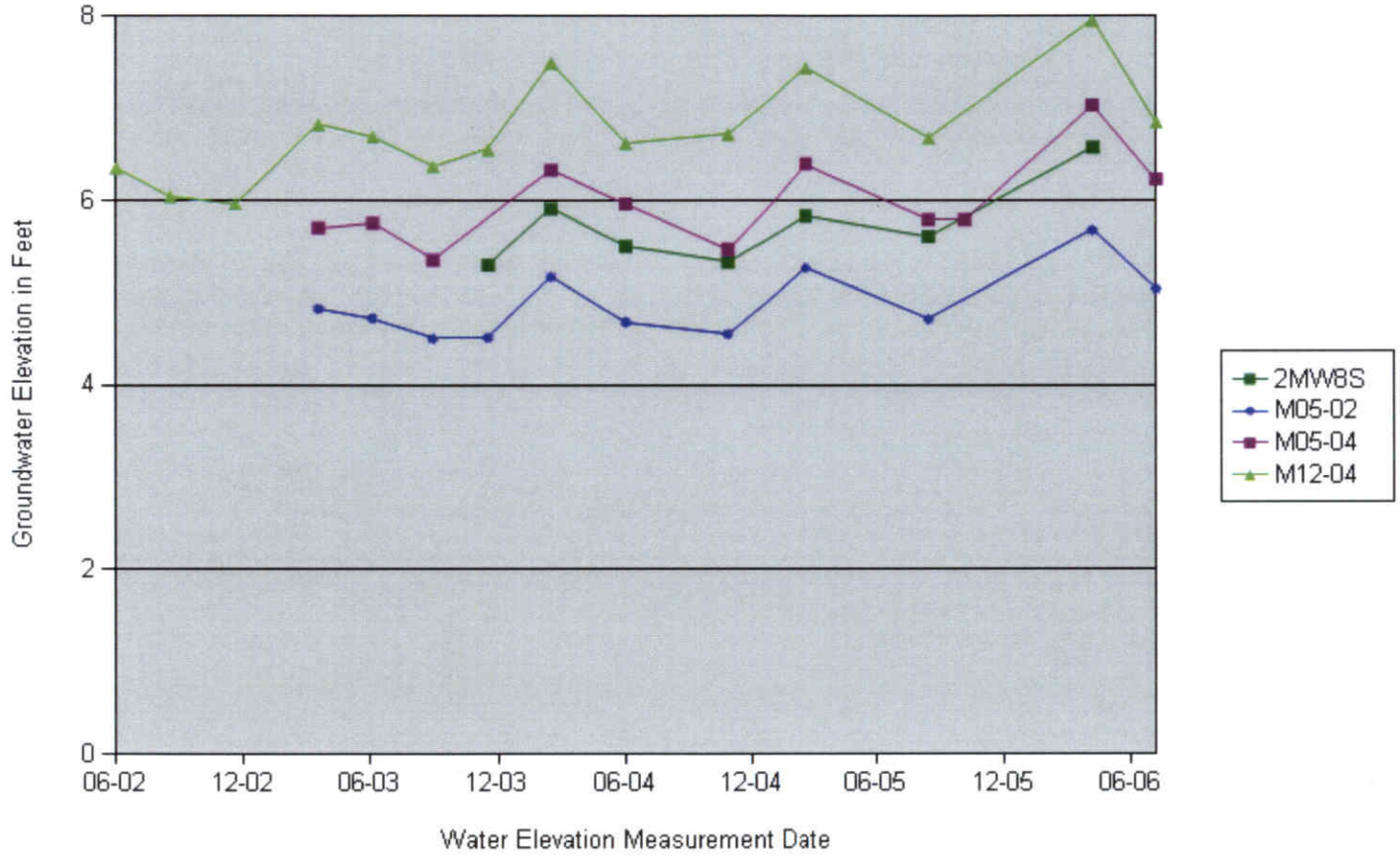
FIGURE 6-3
IR SITE 5 GROUP
GROUNDWATER DISTRIBUTION OF SELECTED
CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006



ITSI Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 6-4a** TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 5: EAST-WEST ORIENTED FWBZ WELLS SUMMER 2002 THROUGH SPRING 2006

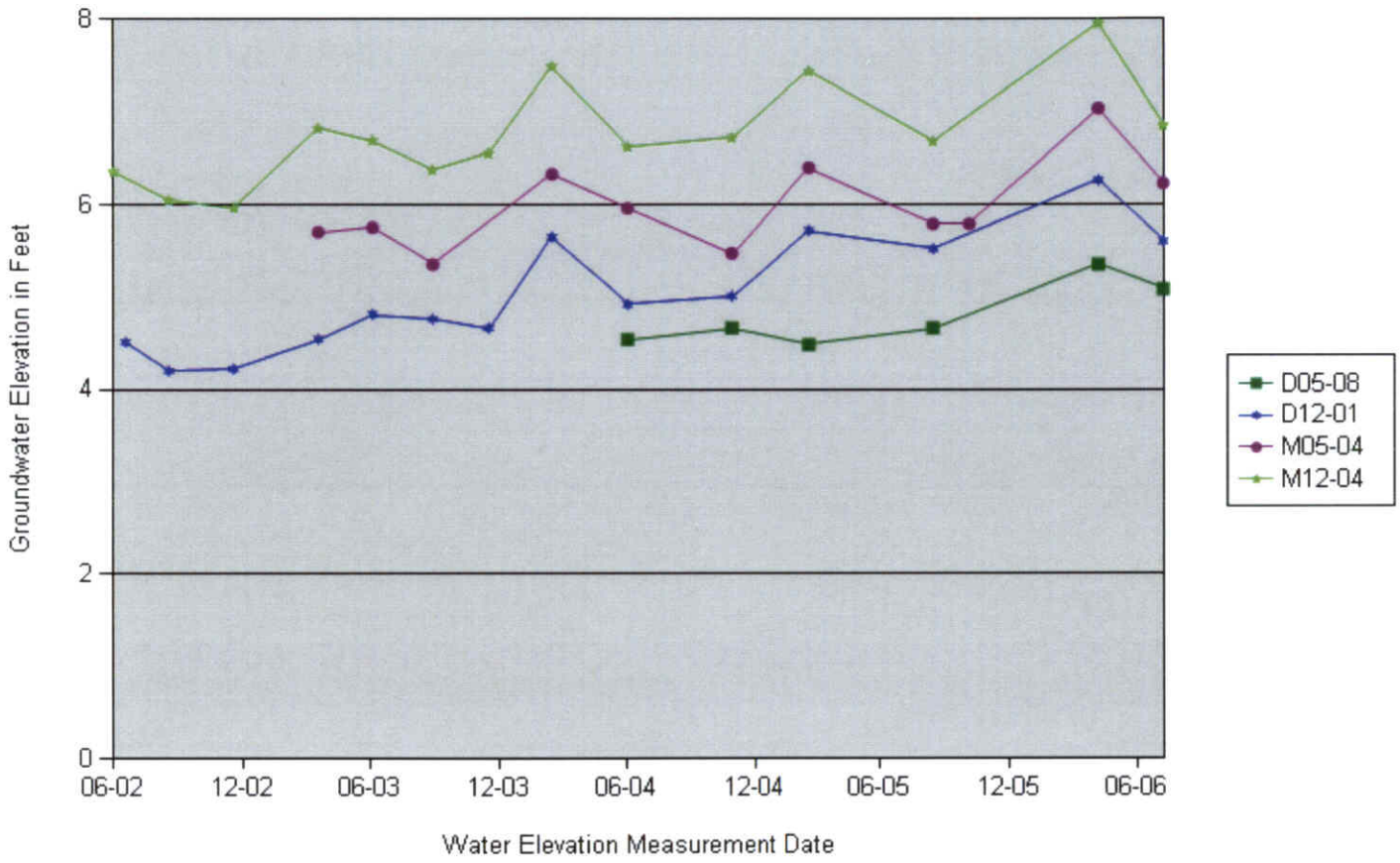


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FIGURE 6-4b
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 5:
FWBZ WELL M05-04 & SWBZ WELL D05-08; FWBZ WELL M12-04 &
SWBZ WELL D12-01, SUMMER 2002 THROUGH SPRING 2006

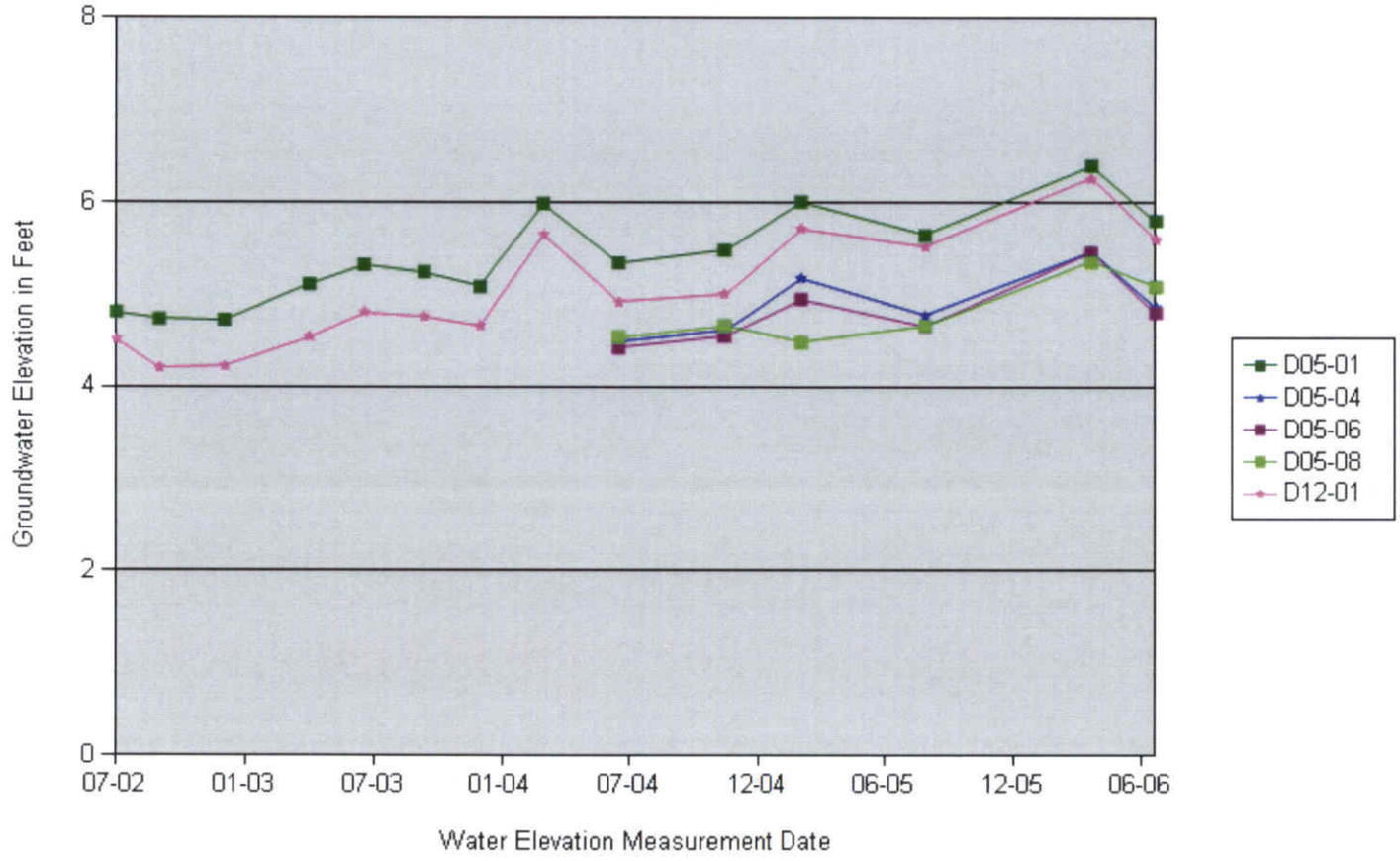

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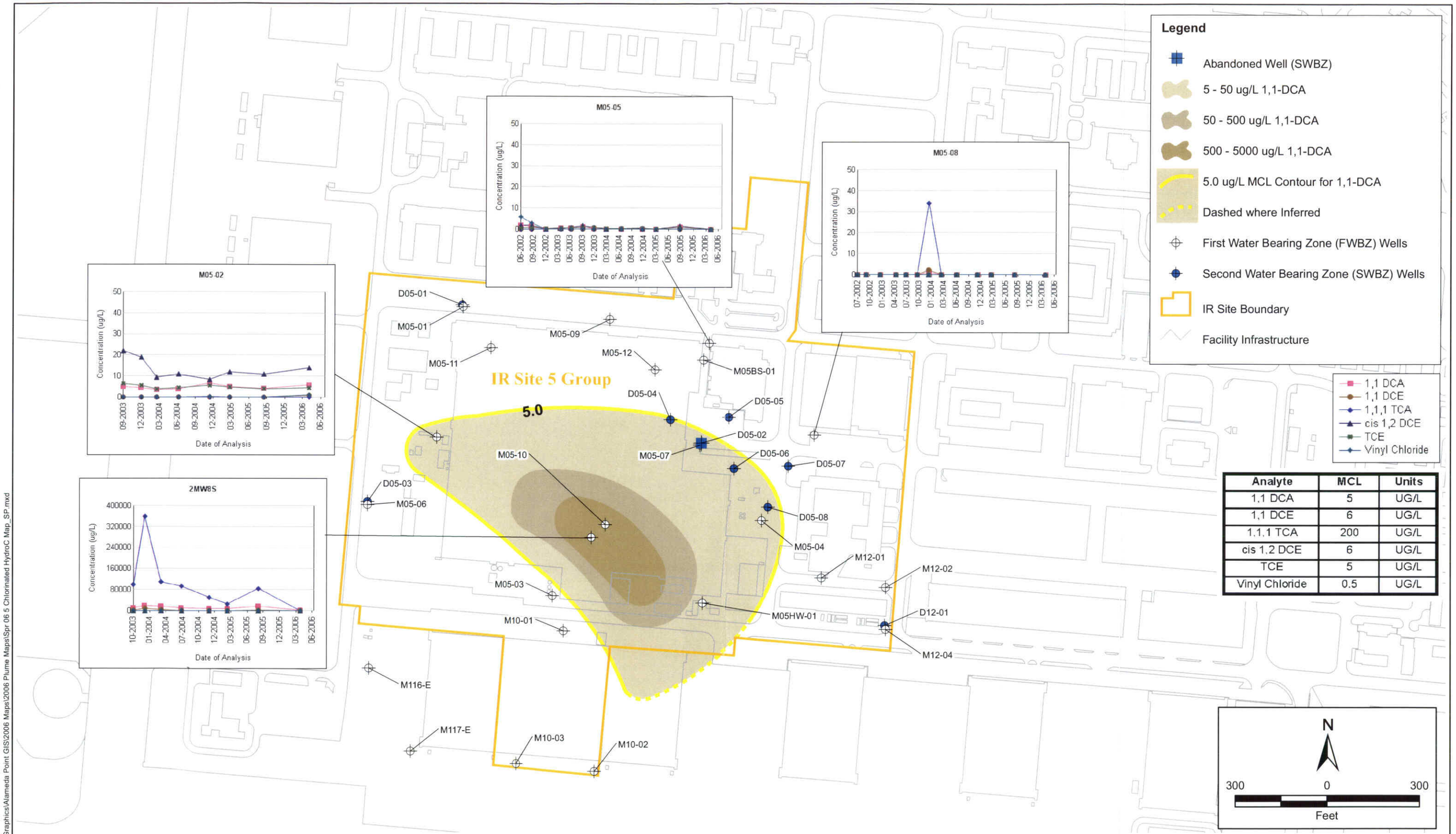
FIGURE 6-4c
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 5:
NORTHWEST-SOUTHEAST ORIENTED SWBZ WELLS
SUMMER 2002 THROUGH SPRING 2006



Analyte	MCL	Units
1,1 DCA	5	UG/L
1,1 DCE	6	UG/L
1,1,1 TCA	200	UG/L
cis 1,2 DCE	6	UG/L
TCE	5	UG/L
Vinyl Chloride	0.5	UG/L

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 5 Chlorinated HydroC Map_SP.mxd

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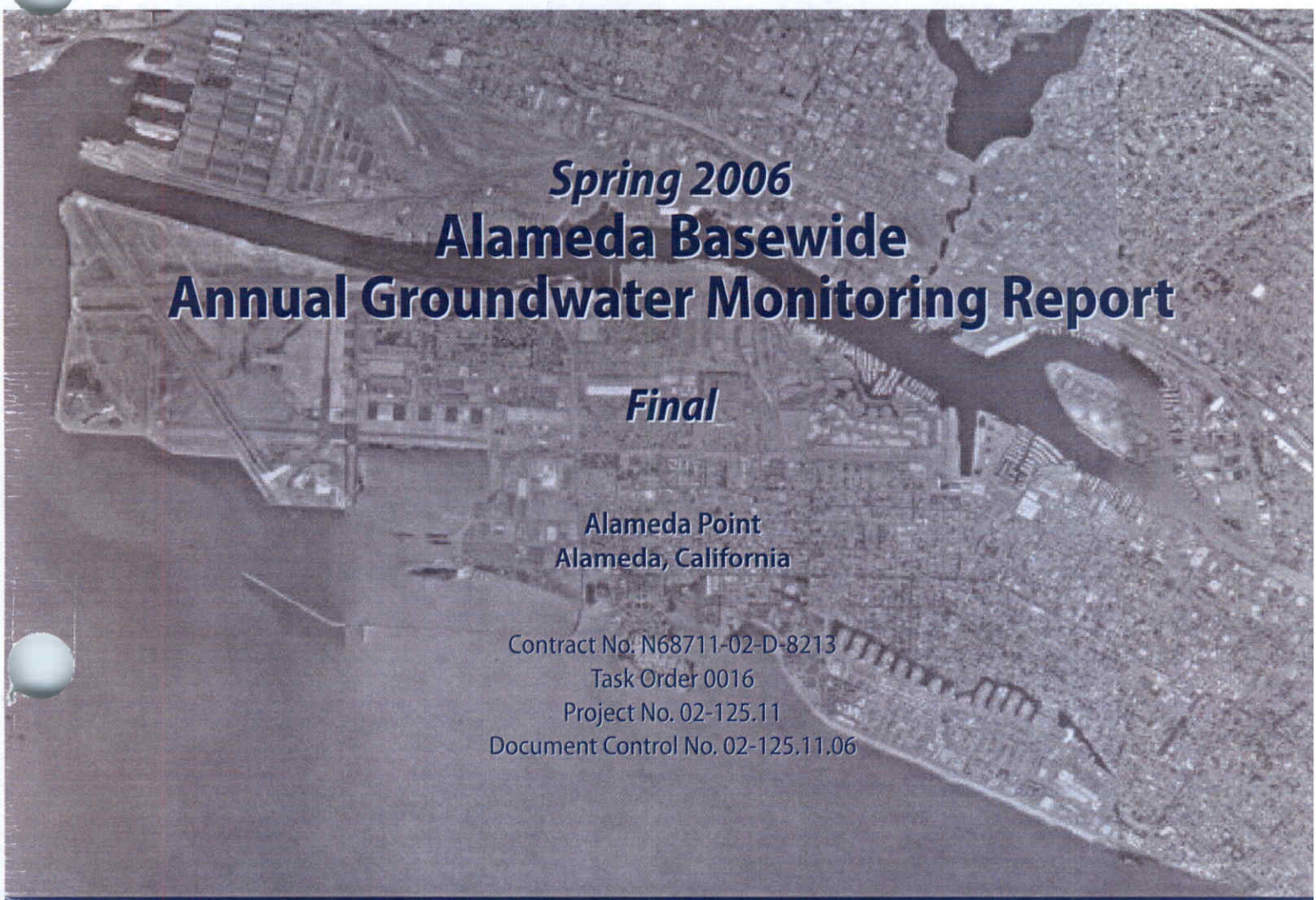
FIGURE 6-5
IR SITE 5 GROUP
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

N00236.002965
ALAMEDA POINT
SSIC NO. 5090.3



Spring 2006
Alameda Basewide Annual Groundwater Monitoring Report

Final

Alameda Point
Alameda, California

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February 2007

7.0 INSTALLATION RESTORATION SITE 6

IR Site 6 (Aircraft Intermediate Maintenance Facility) was an aircraft operation and support facility in the east-central section of Alameda Point (Figure 1-2) while the NAS was active. The site encompasses Buildings 41 and 273 and the apron area west of these two structures. Building 41 was originally used as a hangar for seaplanes and was later used for the repair of aircraft components. In addition to an aircraft component repair shop, Building 41 housed an equipment wash pad and a paint stripping area. An oil/water separator was located southwest of the building. Above-ground solvent storage and paint stripping tanks, a small hazardous waste storage area and several portable avionics laboratories were located northwest of Building 41. Industrial activities related to the air station ceased at the site in September 1996; all equipment and above-ground stored waste were removed by March 1997. The oil/water separator has not been removed to date. Potential sources of chemical contaminants in groundwater include the following:

- Waste discharges to an oil/water separator from paint stripping and equipment washing activities;
- Spills or leaks from aboveground solvent storage and paint stripping tank;
- Spills or leaks from the waste storage and portable avionics laboratories to soil, groundwater, and storm water.

The actual source of constituents detected in the groundwater has not been determined during the IR investigations conducted to date (TtEMI, 1999a).

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 6 included sampling and analysis of seven FWBZ groundwater monitoring wells. An additional FWBZ groundwater monitoring well is used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 7-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 7-1.

7.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from eight groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 6. The results are presented along with previously collected water-level data in Table 7-2.

7.2 ANALYTICAL PARAMETERS

Groundwater samples at IR Site 6 collected during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- TPH as gasoline by EPA Method 8015B
- TPH as diesel, jet fuel, motor oil by EPA Method 8015B
- VOCs by EPA Method 8260B
- 1,4-Dioxane by EPA Method 8270 Selective Ion Monitoring (SIM)
- SVOCs by EPA Method 8270C
- Dissolved Metals by EPA Methods 6010B/6020A/7470
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 7-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

7.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2004 through Spring 2005) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 7-3 through 7-7 as follows:

- Table 7-3, "Groundwater Sample Analytical Results at IR Site 6: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 7-4, "Groundwater Sample Analytical Results at IR Site 6: 1,4-Dioxane, Fall/Winter 2004 through Spring 2006"
- Table 7-5, "Groundwater Sample Analytical Results at IR Site 6: Semivolatile Organic Compounds, Summer 2002 through Spring 2006"

- Table 7-6, "Groundwater Sample Analytical Results at IR Site 6: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 7-7, "Groundwater Sampling Field Parameters at IR Site 6, Summer 2002 through Spring 2006"
- Table 7-8, "Groundwater Sample Analytical Results at IR Site 6: Natural Attenuation Parameters, Summer 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

7.4 DISCUSSION OF RESULTS

Groundwater samples collected in the current sampling year (Summer 2005 to Spring 2006) indicate that groundwater concentrations of TPH have been low to non-detect for all wells sampled; the highest TPH concentration was 63 µg/L of a TPH characterized as jet fuel in one groundwater sample collected from well M06-05 (Table 7-3).

Concentrations of chlorinated hydrocarbons have been consistently detected in groundwater samples collected from the same groundwater monitoring wells screened in the FWBZ at Site 6. **Cis-1,2-DCE** was detected above the MCL of 6 µg/L in five wells, at a maximum concentration of 9.5 µg/L in groundwater collected from well M06-02 in Summer 2005. **Vinyl Chloride** was detected above the MCL of 0.50 µg/L in four wells, at a maximum concentration of 3.4 µg/L in groundwater collected from well M06-01 in Spring 2006 (Table 7-9).

A summary of detected analytical results for 1,4-Dioxane is presented in Table 7-4. Although no MCL is established for 1,4-Dioxane, low concentrations above laboratory reporting limit were detected in five wells at a maximum concentration of 2.9 µg/L in groundwater collected from well M06-06 in Summer 2005.

Groundwater concentrations of SVOCs were predominantly non-detect for all wells sampled for SVOCs during the current sampling year (Table 7-5). No SVOC concentrations exceeded MCLs in any of the wells.

A summary of detected analytical results for dissolved metals is presented in Table 7-6. Groundwater concentrations of dissolved metals were below the MCLs (Table 7-9) during the current sampling round.

Field parameters measured during sampling are presented in Table 7-7.

Four wells at IR Site 6 are monitored for various natural attenuation parameters, such as alkalinity, dissolved gases, anions, nitrate and sulfate (Table 7-8).

No metals exceeded MCLs in current sampling year events.

7.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 7-2. As shown in the figure, the groundwater potentiometric surface in Site 6 has very little relief, meaning that groundwater flow directions are not consistent or well defined. Overall, the groundwater flow direction in the FWBZ at IR Site 6 is generally to the northeast at a gradient of approximately 0.002 feet per foot.

7.4.2 Groundwater Contaminant Distribution

Contaminant distribution in groundwater for cis-1,2-DCE and vinyl chloride is illustrated on Figure 7-3. The cis-1,2-DCE plume exceeding the MCL of 6.0 µg/L occurs mainly in the southern portion of IR Site 6, extending beyond the southern site boundary. Additional wells may be necessary to capture the upgradient section of this plume. Vinyl chloride occurs within the same distribution as cis-1,2-DCE.

7.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 and Spring 2006) are summarized in Table 7-9, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 7-9 also lists the historical maximum concentration (Summer 2002 through Spring 2005 for each analyte. In general, concentrations of analytes detected during the Summer 2005 through Spring 2006 sampling year were similar to those found in previous sampling years.

Differences with respect to MCLs are:

- TCE and arsenic exceeded MCLs in historical samples but did not exceed MCLs at any locations for the current sampling year.

Changes in TCE concentrations were consistent and generally within the range of results previously reported in the historical data for each monitoring well sampled at IR Site 6.

7.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevations over time are illustrated on Figure 7-4 for selected wells. Small variations in groundwater elevation occur due to seasonal fluctuation mainly between the Spring, Summer, and Fall events with highest elevations during Spring season.

7.4.5 Trends in Groundwater Contaminant Concentrations

As noted in Section 7.4.3, concentrations of analytes detected during the Summer 2005 through Spring 2006 sampling year were generally similar to those found in previous sampling years. Trends in groundwater contaminant concentrations in selected wells over time are displayed graphically on Figure 7-5. In general, no significant changes in contaminant concentrations for cis-1,2-DCE and vinyl chloride have occurred in any well over a period of three years, and typically show a decreasing or flat trend.

7.5 CONCLUSIONS AND RECOMMENDATIONS

IR Site 6 contaminants of concern, cis-1,2-DCE and vinyl chloride exceeding MCL, occur mainly in the southern portion of the site. The cis-1,2-DCE contaminant plume is well defined in

the downgradient, i.e. northeast, direction. Additional wells may be needed to capture the upgradient section of this plume. Concentrations of cis-1,2-DCE and vinyl chloride have been consistently detected at similar concentrations in each well location for the past two to three years of monitoring. Lateral extent variations of the cis-1,2-DCE plume exceeding MCL occurs depending on seasonal fluctuations of the groundwater. These variations are more evident in the upgradient well M06-06, where cis-1,2-DCE concentrations have been above the MCL mostly during Summer/Fall/Winter, and below the MCL during the Spring season.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 7-1
Groundwater Monitoring Summary, IR Site 6 - Summer 2005 and Spring 2006

				Organic Compounds					Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	SVOCs (EPA 8270C)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells														
First	13-MW-03	Unknown	3 - 18			X	X							
	M06-01	Fill	4 - 9.5			X	X							
	M06-02	Fill	4 - 10			X	X							
	M06-03	Fill	4 - 10	X	X	X	X		X	X	X	X	X	X
	M06-05	Fill	4 - 10	X	X	X	X		X	X	X	X	X	X
	M06-06	Fill	3 - 13	X	X	X	X		X	X	X	X	X	X
	M06-07	Fill	4 - 13.5			X	X	X		X	X	X	X	X
Non-Program Wells, Water Level Only														
First	M06-04	Fill	4 - 9	-	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compound
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 7-2
Summary of Groundwater Level Measurements at IR Site 6
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	13-MW-03	9.09	9.09	04/12/06	2.06	7.03
		9.09	9.09	08/23/05	2.31	6.78
		9.09	9.09	02/28/05	2.75	6.34
		9.09	9.09	11/08/04	3.06	6.03
		9.09	9.09	06/17/04	3.44	5.65
		9.09	9.09	03/02/04	2.73	6.36
		9.09	9.09	12/02/03	3.31	5.78
		9.09	9.09	09/16/03	3.56	5.53
		9.09	9.09	06/23/03	3.29	5.80
		9.09	9.09	04/07/03	3.13	5.96
First	M06-01	10.39	10.41 **	04/12/06	2.92	7.49
		10.39	10.41 **	08/23/05	3.91	6.50
		10.39	10.41 **	02/28/05	3.30	7.11
		10.39	10.41 **	11/08/04	3.99	6.42
		10.39	10.41 **	06/17/04	3.96	6.45
		10.39	10.41 **	03/02/04	3.41	7.00
		10.39	10.41 **	12/02/03	4.05	6.36
		10.39	10.41 **	09/16/03	4.10	6.31
		10.39	10.41 **	06/23/03	3.91	6.50
		10.39	10.41 **	04/07/03	3.95	6.46
First	M06-02	10.68	10.70 **	04/12/06	3.46	7.24
		10.68	10.70 **	08/23/05	4.09	6.61
		10.68	10.70 **	02/28/05	3.71	6.99
		10.68	10.70 **	11/08/04	4.24	6.46
		10.68	10.70 **	06/17/04	4.35	6.35
		10.68	10.70 **	03/02/04	3.82	6.88
		10.68	10.70 **	12/02/03	4.26	6.44
		10.68	10.70 **	09/16/03	4.41	6.29
		10.68	10.70 **	06/23/03	4.19	6.51
		10.68	10.70 **	04/07/03	4.04	6.66
First	M06-03	11.75	11.20 *	04/12/06	4.20	7.00
		11.75	11.20 *	08/23/05	3.82	7.38
		11.75	11.20 *	02/28/05	4.42	6.78
		11.75	11.20 *	11/08/04	4.82	6.38
		11.75	11.20 *	06/17/04	4.87	6.33
		11.75	11.20 *	03/02/04	4.41	6.79
		11.75	11.20 *	12/02/03	4.81	6.39
		11.75	11.20 *	09/16/03	4.98	6.22
		11.75	11.20 *	06/23/03	4.81	6.39
		11.75	11.20 *	04/07/03	4.72	6.48
		11.75	11.20 *	12/11/02	4.90	6.30
		11.75	11.20 *	06/24/02	5.88	5.32
First	M06-04 ‡	10.50	10.52 **	08/23/05	2.29	8.23
		10.50	10.52 **	02/28/05	6.70	3.82
		10.50	10.52 **	11/08/04	3.09	7.43
		10.50	10.52 **	06/17/04	3.19	7.33
		10.50	10.52 **	03/02/04	3.02	7.50
		10.50	10.52 **	12/02/03	3.05	7.47

Table 7-2
Summary of Groundwater Level Measurements at IR Site 6
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M06-04 ‡	10.50	10.52 **	09/16/03	3.32	7.20
		10.50	10.52 **	06/23/03	3.24	7.28
		10.50	10.52 **	04/07/03	3.10	7.42
First	M06-05	11.24	10.86 *	04/12/06	3.90	6.96
		11.24	10.86 *	08/23/05	8.74	2.12
		11.24	10.86 *	02/28/05	4.00	6.86
		11.24	10.86 *	11/08/04	4.31	6.55
		11.24	10.86 *	06/17/04	4.37	6.49
		11.24	10.86 *	03/02/04	3.90	6.96
		11.24	10.86 *	12/02/03	4.29	6.57
		11.24	10.86 *	09/16/03	4.45	6.41
		11.24	10.86 *	06/23/03	4.29	6.57
		11.24	10.86 *	04/07/03	3.85	7.01
		11.24	10.86 *	12/11/02	4.54	6.32
		11.24	10.86 *	09/03/02	4.53	6.33
		11.24	10.86 *	06/24/02	5.44	5.42
First	M06-06	11.24	10.94 *	04/12/06	3.09	7.85
		11.24	10.94 *	08/23/05	4.09	6.85
		11.24	10.94 *	02/28/05	3.45	7.49
		11.24	10.94 *	11/08/04	4.13	6.81
		11.24	10.94 *	06/17/04	4.09	6.85
		11.24	10.94 *	03/02/04	3.47	7.47
		11.24	10.94 *	12/02/03	4.15	6.79
		11.24	10.94 *	09/16/03	4.30	6.64
		11.24	10.94 *	06/23/03	4.91	6.03
		11.24	10.94 *	04/07/03	3.63	7.31
		11.24	10.94 *	12/11/02	4.38	6.56
		11.24	10.94 *	09/03/02	4.32	6.62
		11.24	10.94 *	06/24/02	4.06	6.88
First	M06-07	NM	10.51	04/12/06	2.77	7.74
		NM	10.51	08/23/05	2.71	7.80
		NM	10.51	02/28/05	3.04	7.47
		NM	10.51	11/08/04	4.04	6.47
		NM	10.51	06/17/04	3.85	6.66

Notes:

BTOC = below top of casing

msl = mean sea level

NM = not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 7-3

Groundwater Sample Analytical Results at IR Site 6: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	13-MW-03	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M06-01	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	**2.0**	< 0.50	**8.2**	**1.0**	< 0.50	< 0.50	< 0.50	**3.4**
		2005 02 (Summer)	-	-	-	-	-	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**3.1**	< 0.50	**6.8**	**0.80**	< 0.50	< 0.50	< 0.50	**2.7**
		2005 01 (Spring)	-	-	-	-	-	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	**3.5**	< 0.50	**6.5**	**0.90**	< 0.50	< 0.50	< 0.50	**1.8**
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	**3.2**	< 0.50	**8.0**	**1.0**	< 0.50	< 0.50	< 0.50	**2.5**
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	**3.2**	< 0.50	**8.0**	**0.40 J**	< 0.50	< 0.50	< 0.50	**1.1**
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.25 J**	**2.4**	< 1.0	**7.3**	**0.96 J**	< 1.0	< 0.50	< 1.0	**3.0**
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	**0.56 J**	**3.5**	< 1.0	**12.0**	**1.0 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.78 J**	< 1.0	**3.2**	**0.53 J**	< 1.0	< 0.50	< 1.0	**2.0**
	M06-02	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	**0.10 J**	**4.1**	**2.1**	**0.50**	< 0.50	**0.70**	**0.80**
		2005 02 (Summer)	-	-	-	-	-	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	**0.30 J**	**9.5**	**4.3**	**1.1**	< 0.50	**0.20 J**	**3.3**
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	**0.40 J**	**8.1**	**3.0**	**0.70**	< 0.50	**0.30 J**	**1.0**
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	**0.40 J**	**11.0**	**5.2**	**0.80**	< 0.50	< 0.50	**0.40 J**
		2004 02 (Summer)	-	-	-	-	-	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.4**	**0.30 J**	**9.4**	**5.0**	**0.80**	< 0.50	< 0.50	**0.90**
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.9**	**0.38 J**	**8.4**	**3.9**	**0.88 J**	< 0.50	**0.26 J**	**1.5**
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	**1.5**	**0.42 J**	**12.0**	**4.6 J**	**0.86 J**	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.46 J**	**0.52 J**	**14.0**	**7.0**	**1.2**	< 0.50	< 1.0	**3.4**
	M06-03	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**5.5**	**0.10 J**	**0.10 J**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**8.8**	**0.20 J**	**0.10 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**6.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**8.4**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.26 J**	< 1.0	**10.0**	< 1.0	**0.24 J**	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**6.8**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**6.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	**5.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M06-05	2006 01 (Spring)	< 50.0	**63.0**	< 300	< 50.0	**63.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**25.0 J**	**25.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**
		2005 01 (Spring)	**110 J**	**93.0**	< 300	< 50.0	**203**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**120**	**64.0**	< 300	< 50.0	**184**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	**25.0 J**	**25.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	**1.6**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 7-3

Groundwater Sample Analytical Results at IR Site 6: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-05	2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.80	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0 J	< 300	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.90	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M06-06	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.0	1.8	0.30 J	3.4	0.40 J	0.40 J	< 0.50	< 0.50	0.60
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	2.3	0.50	5.0	0.80	0.90	< 0.50	< 0.50	0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.60	1.3	0.30 J	2.1	0.30 J	0.40 J	< 0.50	< 0.50	0.30 J
		2004 04 (Winter)	84.0	< 50.0	< 300	< 50.0	84.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	3.4	0.70	6.9	0.90	0.80	< 0.50	< 0.50	0.40 J
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	2.3	0.60	4.5	0.70	0.80	< 0.50	< 0.50	0.40 J
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	2.0	0.30 J	2.3	0.28 J	0.43 J	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 200	< 290	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	3.6	0.79 J	6.9	0.83 J	0.91 J	< 0.50	< 1.0	0.53
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0 J	2.0	0.71 J	5.5	1.1	1.6	< 0.50	< 1.0	0.75
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	2.0	0.72 J	5.2	0.47 J	0.63 J	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	2.0	0.50	3.9	0.30 J	0.40 J	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8	2.5	1.0	5.1	0.20 J	0.90	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	48.0 J	< 50.0	240 J	28.0 J	316	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	4.2	5.8	3.1	19.0	1.1	3.6	0.20 J	< 0.50	1.4
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	2.8	4.9	3.0	17.0	1.1	3.4	< 0.50	< 0.50	1.5
	M06-07	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.40 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	0.10 J	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.20 J	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	0.10 J	< 0.50	< 2.0	< 0.50	< 0.50	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	0.20 J	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.30 J	0.20 J	< 0.50	< 0.50

Table 7-4
Groundwater Sample Analytical Results at IR Site 6: 1,4-Dioxane
Fall/Winter 2004 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			1,4-Dioxane
		Units:	UG/L
		MCL:	**NA**
		BV:	**NA**
	Well Number	Event ***AWQC:***	**NA**
FWBZ	13-MW-03	2006 01 (Spring)	< 0.96
		2005 02 (Summer)	**0.43 J**
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	**0.18 J**
	M06-01	2006 01 (Spring)	**0.13 J**
		2005 02 (Summer)	<0.95
		2005 01 (Spring)	**0.36 J**
		2004 04 (Winter)	**0.41 J**
	M06-02	2006 01 (Spring)	**0.41 J**
		2005 02 (Summer)	**1.1**
		2005 01 (Spring)	**0.79 J**
		2004 04 (Winter)	**1.9**
	M06-03	2006 01 (Spring)	**0.38J**
		2005 02 (Summer)	**0.62J**
		2004 04 (Winter)	**1.0**
	M06-05	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.97
	M06-06	2006 01 (Spring)	**0.91 J**
		2005 02 (Summer)	**2.9**
		2005 01 (Spring)	**1.2**
		2004 04 (Winter)	**3.6**
	M06-07	2006 01 (Spring)	< 0.97
		2005 02 (Summer)	< 0.95
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.97

Table

Groundwater Sample Analytical Results at IR Site 6: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																	
			1,4 Dioxane	Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	13-MW-03	2006 01 (Spring)	< 0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 02 (Summer)	**0.43 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	**0.18 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M06-01	2006 01 (Spring)	**0.13 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 02 (Summer)	< 0.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	**0.36 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	**0.41 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M06-02	2006 01 (Spring)	**0.41 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 02 (Summer)	**1.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	**0.79 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	**1.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M06-03	2006 01 (Spring)	**0.38 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 02 (Summer)	**0.62 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	**1.0**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M06-05	2006 01 (Spring)	< 0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 02 (Summer)	< 0.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	< 0.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 0.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M06-06	2006 01 (Spring)	**0.91 J**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 02 (Summer)	**2.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2005 01 (Spring)	**1.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 6: Semivolatile Organic Compounds
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs																
			1,4 Dioxane	Acenaphthene	Anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Benzoic acid	bis(2-Chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-Chloroisopropyl)ether
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-06	2004 04 (Winter)	**3.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	M06-07	2006 01 (Spring)	< 0.97	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 48.0	< 9.6	< 9.6	< 9.6
		2005 02 (Summer)	< 0.95	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5
		2005 01 (Spring)	< 0.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 04 (Winter)	< 0.97	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 48.0	< 9.5	< 9.5	< 9.5
		2004 02 (Summer)	-	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	**7.2 J**	< 9.5	< 9.5	< 9.5

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table

Groundwater Sample Analytical Results at IR Site 6: Semivolatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Detected SVOCs															
			2-Chlorophenol	Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Diethylphthalate	2,4-Dimethylphenol	Di-n-Butyl Phthalate	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	4-Methylphenol (p-Cresol)	3-Nitroaniline	Nitrobenzene	4-Nitrophenol	n-Nitrosodiphenylamine
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	600	NA	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M06-07	2006 01 (Spring)	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 9.6	< 19.0	< 9.6	< 19.0	< 9.6
		2005 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 04 (Winter)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0	< 9.5	< 19.0	< 9.5
		2004 02 (Summer)	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 9.5	< 19.0 J	< 9.5	< 19.0	< 9.5

Table 7-6

Groundwater Sample Analytical Results at IR Site 6: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																			Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M06-03	2006 01 (Spring)	< 1.0	5.6 J	**310**	< 2.0	< 5.0	< 10.0	0.35 J	1.7 J	0.27 J	120	< 0.20	5.5 J	3.3 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	470	79.0	54.0	37.0	1,100
		2005 02 (Summer)	1.1	4.5 J	**380**	< 2.0	< 5.0	1.4 J	0.35 J	< 10.0	< 3.0	210 J	< 0.20	4.2 J	3.3 J	1.2 J	< 5.0	< 5.0	4.5 J	**19.0 J**	< 100	780	78.0	55.0	41.0	1,100
		2004 04 (Winter)	0.19 J	< 5.0	**340**	< 2.0	< 5.0	< 10.0	0.28 J	< 10.0	< 3.0	220	< 0.20	4.9 J	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	150	86.0	62.0	41.0	1,300
		2004 02 (Summer)	0.26 J	4.9	**430**	< 1.0	< 5.0	1.2	0.36 J	1.3	0.12 J	220	0.090 J	< 20.0	2.5	**3.7**	< 5.0	< 1.0	3.5	2.5	5.5 J	120	120	78.0	54.0	1,500
		2003 04 (Winter)	< 5.0	4.8 J	**392**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	225 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	274	119	79.4	54.4	1,470
		2003 02 (Summer)	< 50.0	< 50.0	**501**	< 4.0	< 5.0	< 10.0	< 10.0	1.9 J	< 10.0	276	< 0.40	**6.1 J**	2.1 J	< 20.0	< 10.0	< 100	1.6 J	< 20.0	< 200	262	134	90.1	120	1,340 J
		2002 04 (Winter)	< 50.0	5.0 J	**440**	< 2.0	< 5.0	< 10.0	0.32 J	0.80 J	< 3.0	270	< 0.20	3.0 J	2.1 J	**4.5 J**	< 5.0	< 2.0	3.8 J	< 20.0 UJ	10.0 J	670	120	78.0	46.0	1,400
		2002 02 (Summer)	0.11 J	6.0	**520 J**	< 2.0	< 5.0	**11.0**	0.52 J	0.78 J	0.026 J	280	0.070 J	2.5 J	1.9 J	**7.9**	1.0 J	< 2.0	4.2 J	< 20.0	3.4 J	530	170	98.0	55.0	1,600
	M06-05	2006 01 (Spring)	< 1.0	**8.2 J**	**130**	< 2.0	< 5.0	< 10.0	0.24 J	0.99 J	< 3.0	270	< 0.20	**9.2 J**	3.0 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	500	25.0	26.0	23.0	730
		2005 02 (Summer)	0.20 J	**8.9**	**260 J**	< 2.0	< 5.0	0.91 J	0.23 J	0.65 J	< 3.0	500 J	0.084 J	5.0 J	1.6 J	1.8 J	< 5.0	0.48 J	0.65 J	1.6 J	< 100	850	47.0 J	48.0 J	38.0 J	1,100 J
		2004 04 (Winter)	0.13 J	**9.5**	**180**	< 2.0	< 5.0	< 10.0	0.34 J	< 10.0	< 3.0	370	< 0.20	5.5 J	1.4 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	460	38.0	37.0	30.0	900
		2004 02 (Summer)	0.23 J	**9.3**	**200**	< 1.0	< 5.0	1.2	0.20 J	0.89 J	0.15 J	430	**0.12 J**	< 20.0	3.6	**2.6**	< 5.0	0.26 J	1.2	7.3	5.5 J	400	42.0	36.0	34.0	970
		2003 04 (Winter)	< 5.0 UJ	< 50.0	121	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	191	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	280	31.3	24.8	25.0	694
		2003 02 (Summer)	< 50.0	**8.8 J**	122	< 4.0	< 5.0	1.4 J	< 10.0	< 10.0	< 10.0	220	< 0.40	**8.1 J**	5.5 J	< 20.0	< 10.0	< 5.0	< 50.0	**115**	**97.8 J**	323	20.9	21.8	23.7	642 J
		2002 04 (Winter)	0.43 J	**8.8**	120	< 2.0	< 5.0	< 10.0	0.25 J	1.3 J	0.088 J	260 J	< 0.20	**6.7 J**	3.0 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	7.4 J	5.8 J	380	29.0	18.0	19.0	710
		2002 02 (Summer)	0.10 J	**11.0**	**250 J**	< 2.0	< 5.0	**5.1 J**	0.23 J	0.34 J	0.040 J	540	< 0.20	5.4 J	1.5 J	**3.0 J**	**1.8 J**	< 2.0	2.3 J	3.0 J	3.3 J	980	45.0	44.0	33.0	890
	M06-06	2006 01 (Spring)	< 1.0	3.0 J	65.0	< 2.0	< 5.0	< 10.0	0.12 J	0.96 J	< 3.0	< 50.0	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 5.0	< 10.0	**11.0 J**	< 100	< 100	36.0	15.0	18.0	90.0
		2005 02 (Summer)	0.63 J	< 5.0	**390**	< 2.0	< 5.0	**12.0**	3.9	< 10.0	< 3.0	450	< 0.20	< 20.0	**8.0 J**	**16.0**	< 5.0	< 5.0	**13.0**	**98.0**	< 100	**2,700**	310	930	240	5,900
		2004 04 (Winter)	0.10 J	5.1	69.0	< 2.0	< 5.0	< 10.0	0.25 J	< 10.0	**1.4 J**	150	< 0.20	4.9 J	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	6.4 J	< 100	330	31.0	14.0	23.0	160
		2004 02 (Summer)	0.16 J	**11.0**	72.0	< 2.0	< 5.0	0.43 J	0.20 J	< 10.0	0.22 J	140	< 0.20	3.7 J	0.73 J	< 5.0	< 5.0	< 1.0	< 10.0	9.3 J	< 50.0	260	31.0	14.0	24.0	170
		2003 04 (Winter)	< 5.0	5.7 J	73.6 J	< 4.0	**2.5 J**	< 10.0	< 10.0	< 10.0	< 10.0	179 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	244	33.1	15.3	26.6	164
		2003 02 (Summer)	< 50.0	< 50.0	59.5 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	< 10.0	53.4	< 0.40	5.5 J	1.5 J	< 20.0	< 10.0	< 5.0	2.7 J	< 20.0	< 200	< 100	27.5	12.3	22.5	107 J
		2002 04 (Winter)	< 50.0	< 5.0	99.0	< 2.0	0.16 J	3.1 J	0.28 J	1.1 J	0.22 J	74.0 J	< 0.20	3.1 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	4.2 J	5.9 J	**110**	350	39.0	17.0	21.0	160
		2002 02 (Summer)	0.085 J	4.1 J	**130 J**	< 2.0	< 5.0	2.1 J	0.18 J	0.70 J	0.070 J	100	**0.44**	3.5 J	1.3 J	1.3 J	0.64 J	< 2.0	3.3 J	1.2 J	4.0 J	170	34.0	18.0	31.0	240

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 7-7
Groundwater Sampling Field Parameters at IR Site 6
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	13-MW-03	05/03/06	7.11	0.46	-108
		09/09/05	8.08	8.50	-216
		03/03/05	7.45	0.00	-69
		11/24/04	7.06	0.14	192
		06/29/04	7.43	0.12	-305
		03/08/04	7.23	0.11	186
		12/22/03	7.56	0.29	114
		09/23/03	7.21	0.26	-268
First	M06-01	05/03/06	7.25	1.02	-192
		09/09/05	7.82	0.86	-170
		03/03/05	7.40	0.00	-122
		11/24/04	7.07	0.40	46
		06/29/04	7.09	0.29	-11
		03/08/04	7.04	0.24	104
		12/22/03	7.05	0.26	-184
		09/22/03	7.10	0.30	9.0
First	M06-02	05/03/06	7.42	4.77	-78
		09/09/05	8.50	1.23	-144
		03/02/05	7.82	3.46	-77
		11/24/04	7.57	0.33	134
		06/29/04	7.79	0.40	51
		03/05/04	7.79	2.31	136
		12/22/03	7.72	1.20	-71
		09/22/03	7.86	0.40	1.69
First	M06-03	05/03/06	7.30	1.01	-167
		09/08/05	6.20	4.82	-198
		11/29/04	7.19	0.39	-33
		06/29/04	7.13	0.27	-246
		12/09/03	7.26	0.29	121
		06/27/03	7.53	0.20	-11
		12/23/02	7.02	1.50	-112.8
		06/24/02	7.47	2.10	-100
First	M06-05	05/03/06	7.59	1.29	-224
		09/09/05	8.32	0.96	-222
		03/03/05	7.81	0.00	-224
		11/29/04	7.74	0.57	27
		06/29/04	7.42	0.46	-190
		03/05/04	7.88	0.72	101
		12/08/03	7.75	0.51	103
		09/22/03	7.73	0.64	51
		06/27/03	7.77	0.21	-110
		04/09/03	7.90	3.90	-38
		12/23/02	7.51	4.05	-131.2
		09/05/02	7.51	6.20	-159
		06/24/02	7.71	1.60	-143
First	M06-06	05/03/06	7.20	1.77	39
		09/09/05	8.15	0.85	-162

Table 7-7
Groundwater Sampling Field Parameters at IR Site 6
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M06-06	03/02/05	7.28	1.77	147
		11/29/04	7.22	0.31	33
		06/29/04	7.36	0.27	22
		03/05/04	7.40	1.55	286
		12/09/03	7.56	0.24	178
		09/22/03	7.53	0.37	5.0
		06/27/03	7.78	0.86	202
		04/10/03	7.60	*13.70*	162
		12/23/02	7.29	5.65	24.1
		09/05/02	7.46	1.30	4.4
		06/24/02	7.55	2.20	-62
First	M06-07	05/03/06	7.23	0.92	-164
		09/12/05	8.11	0.79	-160
		03/03/05	7.64	0.00	-64
		11/29/04	7.15	0.26	162
		06/30/04	7.59	0.13	-319

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 7-8
Groundwater Sample Analytical Results at IR Site 6: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity					Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	
FWBZ	M06-03	2006 01 (Spring)	< 0.0050	< 0.0050	**0.51**	**0.060 J**	< 0.25	**1,200**	**250**	**570**	**570**	< 1.0	< 1.0	< 0.040	
		2005 02 (Summer)	< 0.0050	< 0.0050	**2.6**	**0.020 J**	< 0.20	**1,800**	**300**	**760**	**760**	< 1.0	< 1.0	**0.44**	
		2004 04 (Winter)	< 0.0050	< 0.0050	**3.4**	< 0.25	< 0.25	**1,800**	**280**	**600**	**600**	< 1.0	< 1.0	**0.90**	
		2004 02 (Summer)	< 0.010	< 0.010	**3.6**	< 0.25	< 0.25	**2,000**	**280**	**730**	**730**	< 1.0	< 1.0	**0.62**	
		2003 04 (Winter)	< 0.0030	< 0.0030	**1.7**	< 1.0	< 1.0	**1,740**	**256**	**766**	**766**	< 5.0	-	< 1.0	
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.96**	**0.22**	< 1.0	**2,000**	**321**	**703**	-	-	-	< 1.0	
		2002 04 (Winter)	< 0.010	< 0.010	**1.8**	**0.57**	< 10.0	**1,900**	**240**	**670**	**670**	< 1.0	< 1.0	**0.12**	
		2002 02 (Summer)	< 0.010	< 0.010	**0.61**	< 0.25	< 0.25	**2,300**	**270**	**730**	**730**	< 1.0	< 1.0	**0.060**	
	M06-05	2006 01 (Spring)	< 0.0050	< 0.0050	**1.8**	**0.030 J**	< 0.10	**810**	**56.0**	**700**	**700**	< 1.0	< 1.0	< 0.040	
		2005 02 (Summer)	< 0.0050	< 0.0050	**6.5**	< 0.10	< 0.15	**1,400**	**24.0**	**790**	**790**	< 1.0	< 1.0	**0.31 J**	
		2004 04 (Winter)	< 0.0050	< 0.0050	**7.3**	**0.060**	< 0.10	**1,000**	**25.0**	**620**	**620**	< 1.0	< 1.0	**0.23**	
		2004 02 (Summer)	< 0.010	< 0.010	**3.4**	< 0.10	< 0.10	**1,100**	**77.0**	**730**	**730**	< 1.0	< 1.0	**0.22**	
		2003 04 (Winter)	< 0.0030	< 0.0030	**2.2**	< 1.0	< 1.0	**674**	**65.6**	**605**	**605**	< 5.0	-	< 1.0	
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.71**	< 0.10	< 1.0	**978**	**44.9**	**592**	-	-	-	< 1.0	
		2002 04 (Winter)	< 0.010	< 0.010	**2.4**	**0.90**	< 0.050	**620**	**80.0**	**470**	**470**	< 1.0	< 1.0	**0.14**	
		2002 02 (Summer)	< 0.010	< 0.010	**4.2**	< 0.10 J	< 0.10	**1,100**	**36.0**	**650**	**650**	< 1.0	< 1.0	**0.15**	
	M06-06	2006 01 (Spring)	< 0.0050	< 0.0050	**0.55**	**0.20**	< 0.050	**98.0**	**24.0**	**170**	**170**	< 1.0	< 1.0	< 0.040	
		2005 02 (Summer)	< 0.0050	< 0.0050	**4.5**	**0.080**	< 0.050	**130**	**21.0**	**210**	**210**	< 1.0	< 1.0	< 0.040	
		2004 04 (Winter)	< 0.0050	< 0.0050	**6.3**	**0.070**	< 0.050	**180**	**27.0**	**260**	**260**	< 1.0	< 1.0	**0.040**	
		2004 02 (Summer)	< 0.010	< 0.010	**3.3**	**0.030 J**	< 0.050	**160**	**31.0**	**230**	**230**	< 1.0	< 1.0	< 0.040	
		2003 04 (Winter)	< 0.0030	**0.0015 J**	**2.8**	< 1.0	< 1.0	**151**	**34.5**	**274**	**274**	< 5.0	-	< 1.0	
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.65**	**0.36**	< 0.10	**120**	**33.5**	**217**	-	-	-	< 1.0	
		2002 04 (Winter)	< 0.010	< 0.010	**0.12**	**1.0**	< 0.050	**190**	**33.0**	**220**	**220**	< 1.0	< 1.0	< 0.040	
		2002 02 (Summer)	< 0.010	< 0.010	**0.82**	**0.18**	< 0.050	**300**	**31.0**	**240**	**240**	< 1.0	< 1.0	< 0.040	
	M06-07	2006 01 (Spring)	< 0.0050	< 0.0050	**0.083**	< 0.050	< 0.050	**28.0**	**13.0**	**110**	**110**	< 1.0	< 1.0	< 0.040	
		2005 02 (Summer)	< 0.0050	< 0.0050	**3.0**	**0.030 J**	< 0.050	**270**	**6.6**	**250**	**250**	< 1.0	< 1.0	< 0.040	
		2004 04 (Winter)	< 0.0050	< 0.0050	**3.6**	**0.020 J**	< 0.050	**200**	**16.0**	**220**	**220**	< 1.0	< 1.0	< 0.040	
		2004 02 (Summer)	< 0.010	< 0.010	**2.1**	< 0.050	< 0.050	**500**	**14.0**	**390**	**390**	< 1.0	< 1.0	< 0.040	

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 7-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 6

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 6 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	7	1.1 J	M06-07	03 May 2006	18.0	M06-07	2005 01 (Spring)
Benzene (UG/L)	2	7	0.10 J	M06-01	09 Sep 2005	0.10 J	M06-01	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	3	7	1.2	M06-06	09 Sep 2005	4.2	M06-06	2002 03 (Fall)
TPH-Jet Fuel (UG/L)	1	3	63.0	M06-05	03 May 2006	93.0	M06-05	2005 01 (Spring)
Trichloroethene (UG/L)	4	7	3.1	M06-01	09 Sep 2005	5.8	M06-06	2002 03 (Fall)
1,1-Dichloroethene (UG/L)	2	7	0.50	M06-06	09 Sep 2005	3.1	M06-06	2002 03 (Fall)
cis-1,2-Dichloroethene (UG/L)	5	7	9.5	M06-02	09 Sep 2005	19.0	M06-06	2002 03 (Fall)
TPH-Gasoline (UG/L)	1	3	25.0 J	M06-05	09 Sep 2005	28.0 J	M06-06	2002 03 (Fall)
Bromoform (UG/L)	1	7	0.20 J	13-MW-03	09 Sep 2005	--	NA	NA
trans-1,2-Dichloroethene (UG/L)	4	7	4.3	M06-02	09 Sep 2005	7.0	M06-02	2003 03 (Fall)
1,1-Dichloroethane (UG/L)	4	7	1.1	M06-02	09 Sep 2005	3.6	M06-06	2002 03 (Fall)
1,2-Dichloroethane (UG/L)	1	7	0.20 J	M06-07	12 Sep 2005	0.20 J	M06-07	2005 01 (Spring)
Carbon Disulfide (UG/L)	2	7	0.20 J	M06-05	09 Sep 2005	4.0 J	M06-03	2003 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	1	7	0.60	M06-02	09 Sep 2005	0.60	M06-02	2004 04 (Winter)
1,1,1-Trichloroethane (UG/L)	1	7	0.70	M06-02	03 May 2006	0.30 J	M06-02	2005 01 (Spring)
1,2-Dichlorobenzene (UG/L)	1	7	0.10 J	M06-07	12 Sep 2005	0.20 J	M06-07	2004 02 (Summer)
Vinyl Chloride (UG/L)	4	7	3.4	M06-01	03 May 2006	3.4	M06-02	2003 03 (Fall)
1,4-Dichlorobenzene (UG/L)	1	7	0.10 J	M06-07	12 Sep 2005	--	NA	NA
Isopropylbenzene (UG/L)	1	7	0.10 J	M06-02	09 Sep 2005	--	NA	NA
Tert-butyl alcohol (UG/L)	1	7	1.6 J	M06-02	09 Sep 2005	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 7-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 6

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 6 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
1,4 Dioxane (UG/L)	5	7	2.9	M06-06	09 Sep 2005	3.6	M06-06	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 7-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 6

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 6 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	3	3	1.1	M06-03	08 Sep 2005	0.43 J	M06-05	2002 04 (Winter)
Arsenic (UG/L)	3	3	8.9	M06-05	09 Sep 2005	11.0	M06-06	2004 02 (Summer)
Barium (UG/L)	3	3	390	M06-06	09 Sep 2005	520 J	M06-03	2002 02 (Summer)
Chromium (UG/L)	3	3	12.0	M06-06	09 Sep 2005	11.0	M06-03	2002 02 (Summer)
Cobalt (UG/L)	3	3	3.9	M06-06	09 Sep 2005	0.52 J	M06-03	2002 02 (Summer)
Copper (UG/L)	3	3	1.7 J	M06-03	03 May 2006	1.9 J	M06-03	2003 02 (Summer)
Lead (UG/L)	1	3	0.27 J	M06-03	03 May 2006	1.4 J	M06-06	2004 04 (Winter)
Manganese (UG/L)	3	3	500 J	M06-05	09 Sep 2005	540	M06-05	2002 02 (Summer)
Mercury (UG/L)	1	3	0.084 J	M06-05	09 Sep 2005	0.44	M06-06	2002 02 (Summer)
Molybdenum (UG/L)	2	3	9.2 J	M06-05	03 May 2006	8.1 J	M06-05	2003 02 (Summer)
Nickel (UG/L)	3	3	8.0 J	M06-06	09 Sep 2005	5.5 J	M06-05	2003 02 (Summer)
Selenium (UG/L)	3	3	16.0	M06-06	09 Sep 2005	7.9	M06-03	2002 02 (Summer)
Thallium (UG/L)	1	3	0.48 J	M06-05	09 Sep 2005	0.26 J	M06-05	2004 02 (Summer)
Vanadium (UG/L)	3	3	13.0	M06-06	09 Sep 2005	4.2 J	M06-06	2002 04 (Winter)
Zinc (UG/L)	3	3	98.0	M06-06	09 Sep 2005	115	M06-05	2003 02 (Summer)
Iron (UG/L)	3	3	2700	M06-06	09 Sep 2005	980	M06-05	2002 02 (Summer)
Calcium (MG/L)	3	3	310	M06-06	09 Sep 2005	170	M06-03	2002 02 (Summer)
Magnesium (MG/L)	3	3	930	M06-06	09 Sep 2005	98.0	M06-03	2002 02 (Summer)
Potassium (MG/L)	3	3	240	M06-06	09 Sep 2005	120	M06-03	2003 02 (Summer)
Sodium (MG/L)	3	3	5900	M06-06	09 Sep 2005	1600	M06-03	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

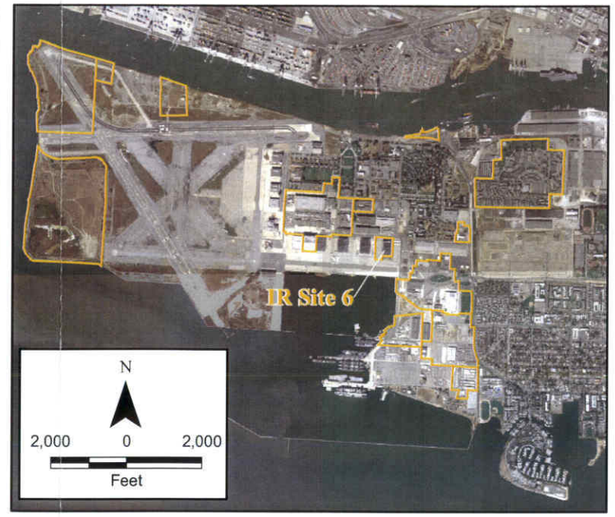
Table 7-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 6

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 6 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	4	4	790	M06-05	09 Sep 2005	766	M06-03	2003 04 (Winter)
Sulfide (MG/L)	2	4	0.44	M06-03	08 Sep 2005	0.90	M06-03	2004 04 (Winter)
Alkalinity, bicarbonate (MG/L)	4	4	790	M06-05	09 Sep 2005	766	M06-03	2003 04 (Winter)
Methane (MG/L)	4	4	6.5	M06-05	09 Sep 2005	7.3	M06-05	2004 04 (Winter)
Nitrate (MG/L)	4	4	0.20	M06-06	03 May 2006	1.0	M06-06	2002 04 (Winter)
Chloride (MG/L)	4	4	1800	M06-03	08 Sep 2005	2300	M06-03	2002 02 (Summer)
Sulfate (as SO4) (MG/L)	4	4	300	M06-03	08 Sep 2005	321	M06-03	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

100 0 100

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004
National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\IR Site 7\IR Site 7 Location Map_NAD83.mxd

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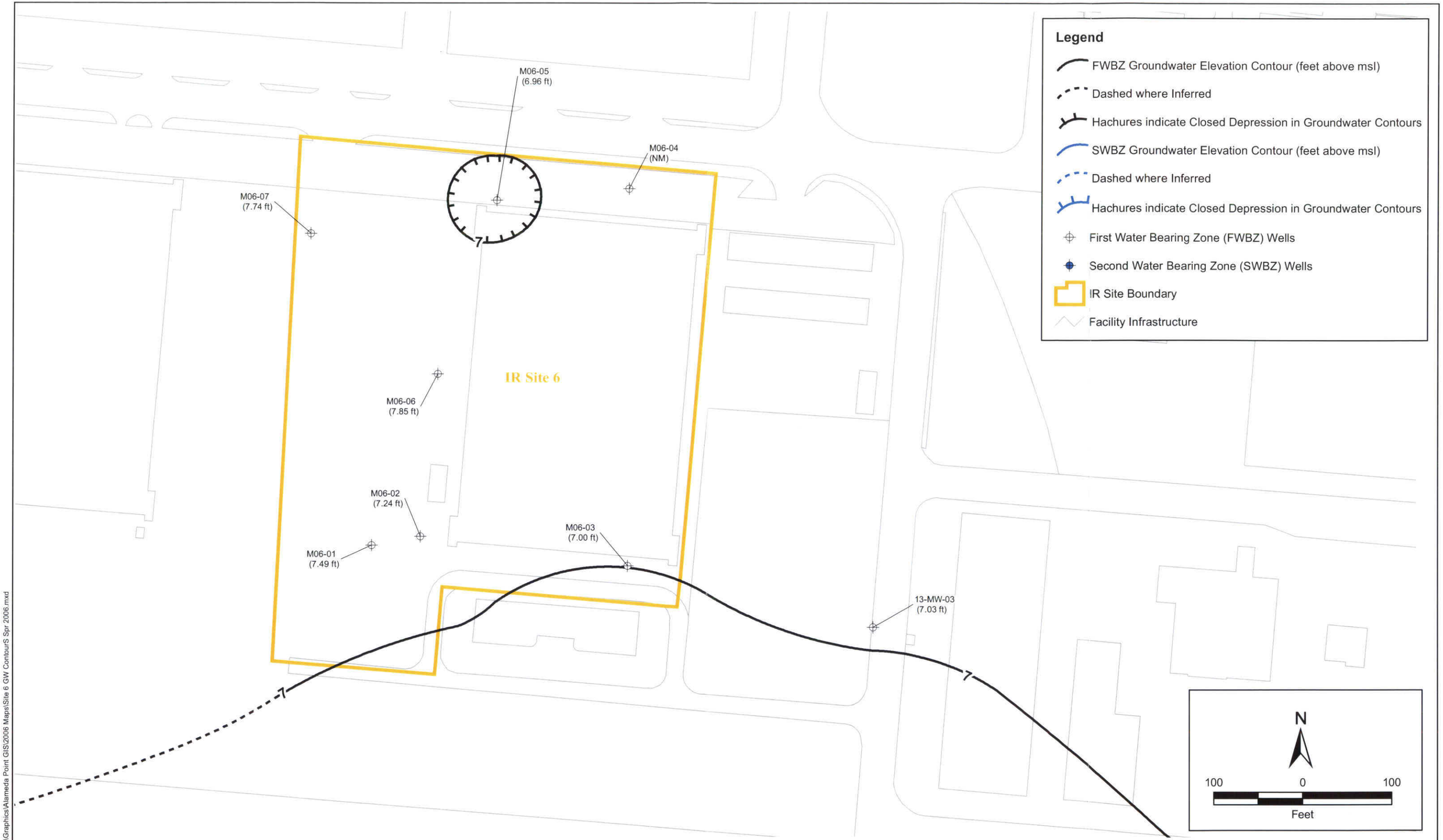
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 7-1
IR SITE 6
SITE AND WELL LOCATION MAP



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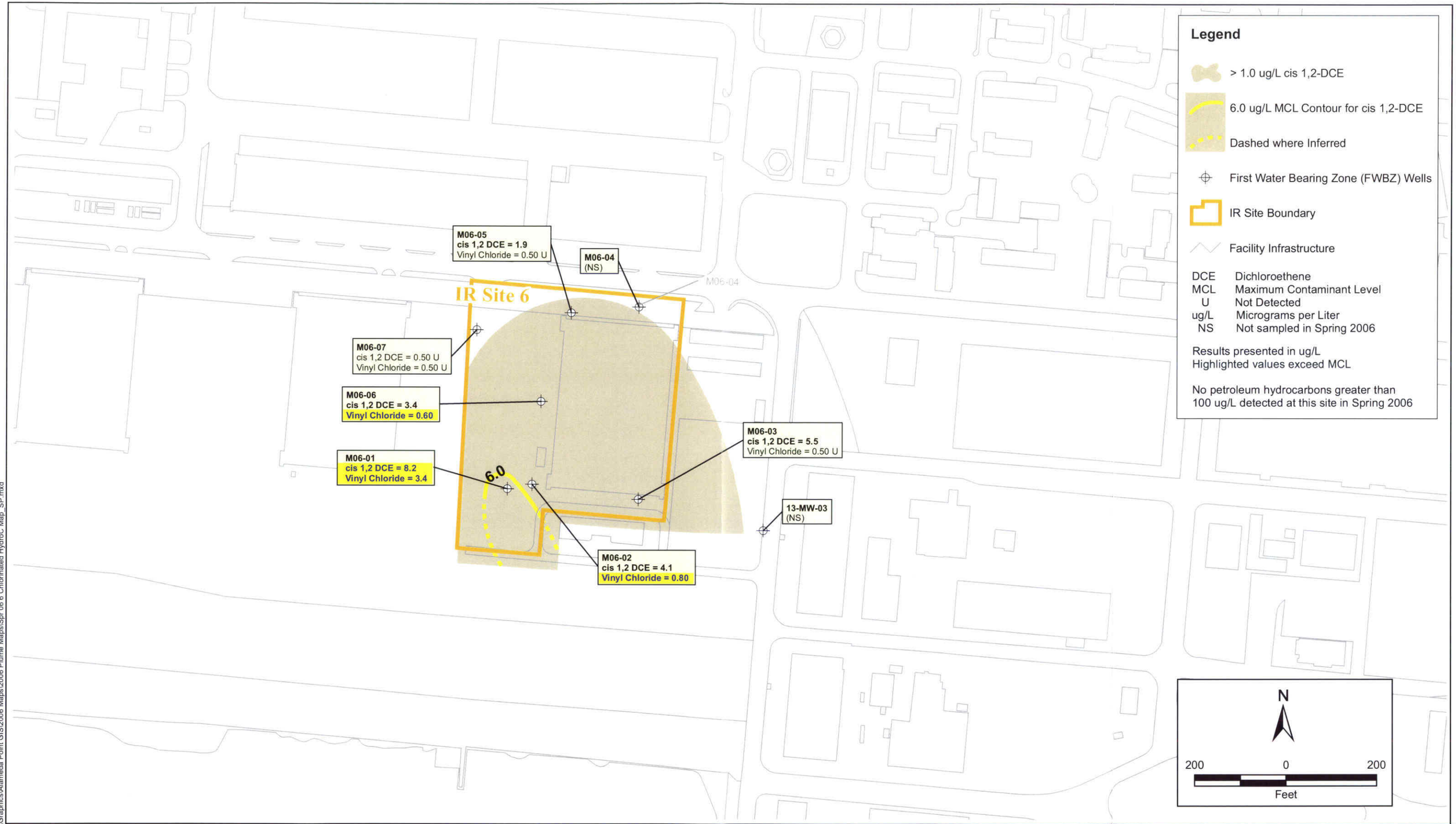
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 7-2
IR SITE 6
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 6 Chlorinated HydroC Map_SP.mxd

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FIGURE 7-3
IR SITE 6
GROUNDWATER DISTRIBUTION OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006

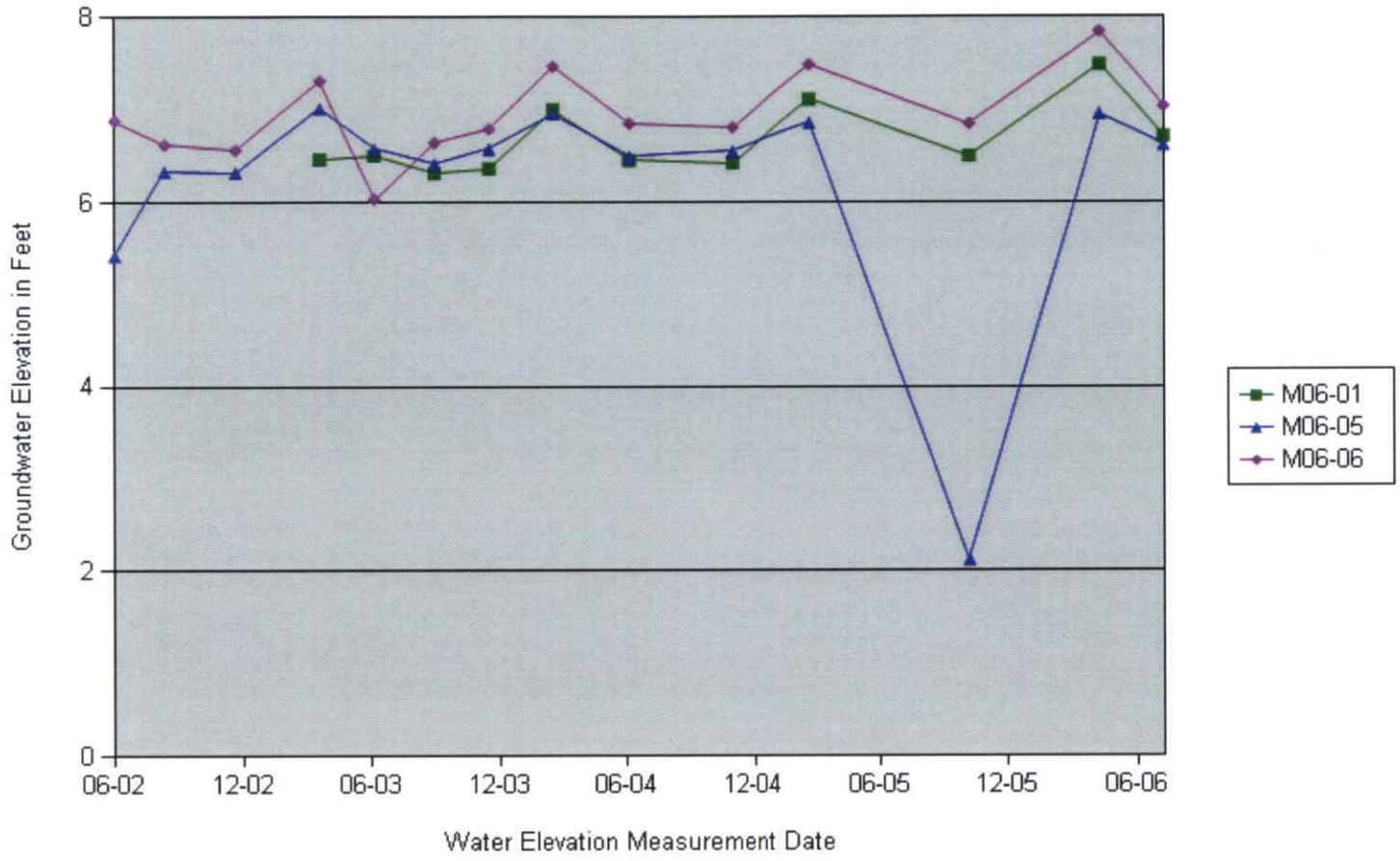

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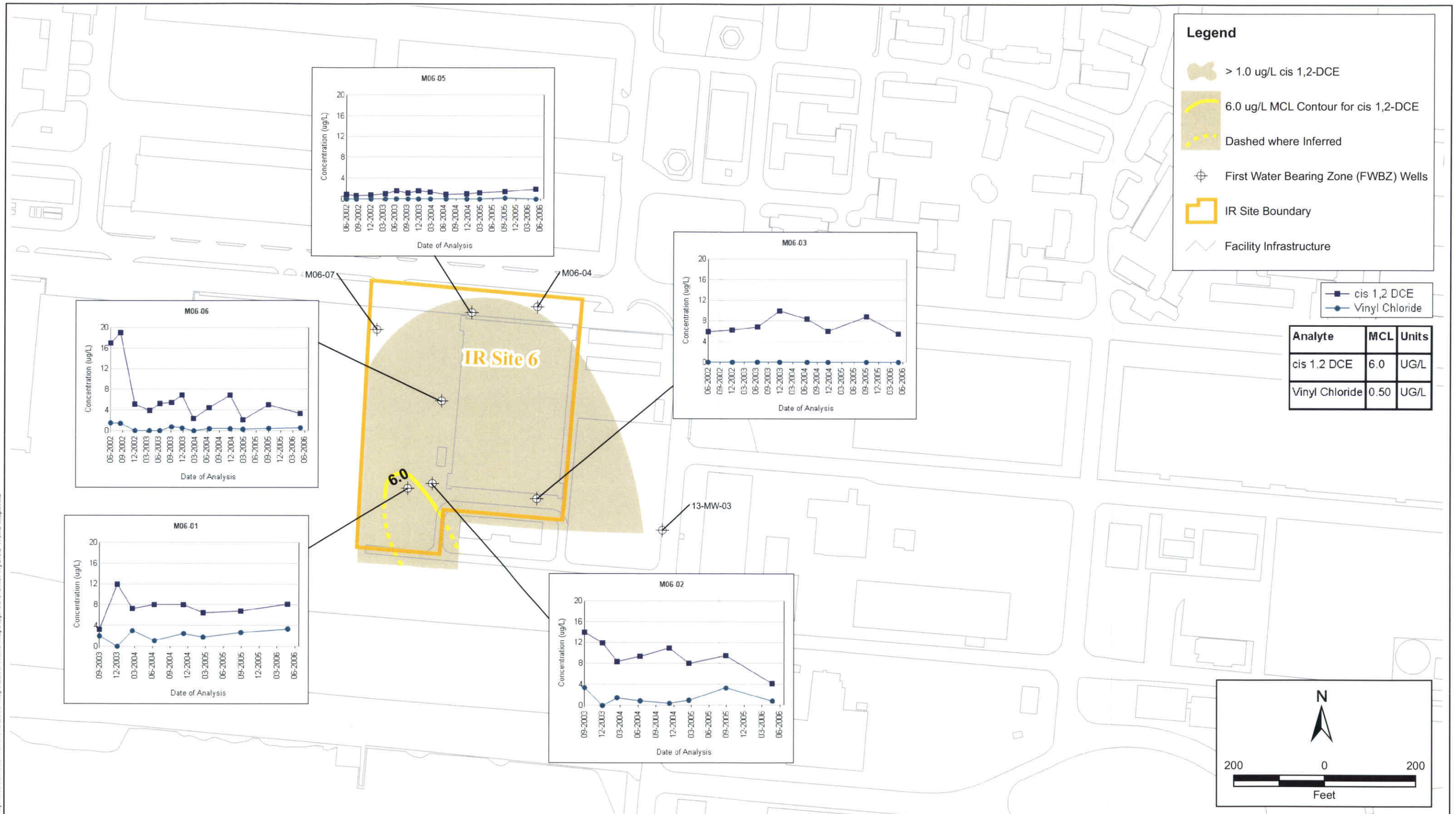
FIGURE 7-4
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 6:
NORTH-SOUTH ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2006



Analyte	MCL	Units
cis 1,2 DCE	6.0	UG/L
Vinyl Chloride	0.50	UG/L

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FIGURE 7-5
IR SITE 6
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

2002 Projects\uz-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Trend Maps\Spr 06 6 Chlor HydroC Trend Map.mxd

8.0 INSTALLATION RESTORATION SITE 7

IR Site 7 consists of the former Naval Exchange Service Station (Building 459) and the surrounding area in the northeastern portion of Alameda Point (Figure 1-2) near the corner of Main Street and West Tower Avenue. The site included an auto repair shop, a small convenience store, and nine USTs. One of the 500-gallon USTs (UST Number 459-8) was reportedly used for storing solvents. The Exchange Service Station operated from 1966 to 1997; all USTs were removed by the end of 1997. IR Site 7 buildings include Building 506, a maintenance, storage and auto hobby shop; the service station pump island (known as "284"); and Building 408, which was a former Exchange Central Support Building.

Potential sources of contamination identified at IR Site 7 include gasoline USTs, associated fuel lines, and pump islands. Other potential contaminant sources include the industrial, sanitary, and storm sewer lines located near IR Site 7. A former municipal waste incinerator (Building 68) was located in the vicinity of IR Site 7 prior to construction of Building 459.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 7 included sampling and analysis of 12 groundwater monitoring wells (nine FWBZ wells and three SWBZ wells). An additional five FWBZ groundwater monitoring well are used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 8-1, along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 8-1.

8.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 17 groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 7. The results are presented along with previously collected water-level data in Table 8-2.

8.2 ANALYTICAL PARAMETERS

Groundwater samples at IR Site 7 collected during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- TPH as gasoline by EPA Method 8015B
- TPH as diesel, jet fuel, motor oil by EPA Method 8015B
- VOCs by EPA Method 8260B
- PAHs by EPA Method 8310
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 8-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

8.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 through Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 8-3 through 8-7 as follows:

- Table 8-3, "Groundwater Sample Analytical Results at IR Site 7: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 8-4, "Groundwater Sample Analytical Results at IR Site 7: Polycyclic Aromatic Hydrocarbons, Summer 2002 through Spring 2006"
- Table 8-5, "Groundwater Sample Analytical Results at IR Site 7: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 8-6, "Groundwater Sampling Field Parameters at IR Site 7, Summer 2002 through Spring 2006"
- Table 8-7, "Groundwater Sample Analytical Results at IR Site 7: Natural Attenuation Parameters, Summer 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to

National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

8.4 DISCUSSION OF RESULTS

Groundwater samples collected during the current sampling year (Summer 2005 to Spring 2006) indicate that groundwater concentrations of TPH as diesel, jet fuel, and motor oil decreased substantially in all FWBZ wells sampled for TPH; the highest TPH concentration found was 330 µg/L of TPH characterized as motor oil in well M07A-03 during the Summer 2005 sampling event (Table 8-3).

Concentrations of aromatic hydrocarbons, particularly MTBE, have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ and the SWBZ at IR Site 7. Of these analytes, only **MTBE** was reported at concentrations exceeding an MCL; MTBE was detected above the MCL of 13 µg/L in one well, at a maximum concentration of 15 µg/L in groundwater collected from well M07A-11 in Summer 2005 (Table 8-3).

Groundwater concentrations of PAHs were predominantly non-detect for all wells sampled for PAHs during the Summer 2005 through Spring 2006 season. The few PAH detections are generally lower than the laboratory reporting limit. Only one well, M07A-07, reported a concentration of benzo(a)pyrene above the MCL of 0.20 µg/L, at a maximum concentration of 0.24 µg/L in groundwater in Summer 2005. M07A-07 also had low detections of fluoranthene at 4.8 µg/L, naphthalene at 3.8 µg/L, and pyrene at 4.1 µg/L in Summer 2005. No PAHs were detected at concentrations above MCLs in any of the other FWBZ or SWBZ wells (Table 8-4).

One FWBZ well concentration of **antimony** was detected above its MCL of 6.0 µg/L. The maximum of antimony concentration was 8.0 µg/L in well M07A-09 in Summer 2005. In addition, **arsenic** was detected above its MCL of 10.0 µg/L in four wells. Well M07A-09 had the highest concentration of arsenic at 59 µg/L in Summer 2005. Barium exceeded its MCL of 1,000 µg/L in 2 wells; a maximum concentration of 1,600 µg/L in groundwater was detected in well D07A-02 during the Summer 2005 sampling event. **Thallium** was detected above its MCL of 2 µg/L in 2 wells, at a maximum concentration of estimated value of 5.7 µg/L in groundwater collected from well D07A-08 during Summer 2005(Table 8-5).

Field parameters measured during sampling are presented in Table 8-6.

Eleven wells at IR Site 7 are monitored for various natural attenuation parameters, such as alkalinity, dissolved gasses, anions, nitrate and sulfate (Table 8-7).

8.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 8-2. The groundwater flow direction in the FWBZ at IR Site 7 is highly variable, dominated by a groundwater mound centered on M07A-07 in the northwestern part of the site, and a localized depression in the southeastern part of the site centered on well M07A-03. The groundwater gradient is highly variable, averaging about 0.01.

Groundwater flow in the SWBZ is also highly variable, dominated by a small groundwater mound in the southeastern part of the site, and a small depression in the east-central portion of the site. Groundwater gradient in the SWBZ is also variable, averaging 0.02. Water levels in the SWBZ wells at IR Site 7 are generally 2 to 3 feet higher than nearby FWBZ wells, indicating confined conditions in the lower water-bearing zone and an upward vertical gradient.

8.4.2 Groundwater Contaminant Distribution

The distribution of MTBE in groundwater is illustrated on Figure 8-3. An MTBE plume exceeding MCL concentration exists mainly in the northeastern portion of the IR Site 7, extending beyond the northeastern and eastern perimeters of the site.

Four metals exceeded their respective MCLs in the current year's sampling events in IR Site 7 wells. However, for two of these metals (antimony and thallium), exceedances have been

reported only sporadically (once or twice) and do not appear to represent ongoing metals contamination of groundwater. The exceptions to this pattern are arsenic and barium, which have been consistently reported above MCLs in two wells at IR Site 7: M07A-07 and D07A-02. These occurrences are at isolated in different portions of the site, and thus do not appear to suggest large contaminated areas. As at other IR sites, arsenic MCL exceedances are limited to wells especially high in iron, suggesting the occurrences are related to reducing conditions.

8.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 8-8, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 8-8 also lists the historical maximum concentration (Summer 2002 through Spring 2005) for each analyte. In general, concentrations of analytes detected during the Summer 2005 through Spring 2006 sampling year were similar to those found in previous sampling years.

Analytical results for TPH as diesel, jet fuel, and motor oil indicate a substantial decrease during the current year (by more than one order of magnitude) in all sampled FWBZ wells when compared with the historical data. MTBE has been consistently detected above its MCL in FWBZ wells. Barium has also been consistently detected, but has been within the range of results of the historical data. Other metals (such as aluminum in well M07A-09, which exceeded its MCL in Summer 2002) have not been detected or the detections have been below the laboratory reporting limit for six consecutive events.

8.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevations over the time are illustrated on Figure 8-4 for selected wells. Variations in groundwater elevations were due to seasonal fluctuation mainly between the Spring, Summer, and Fall events with highest elevations during Spring. As shown in Figure 8-4, groundwater elevations in SWBZ wells are generally higher than the paired FWBZ wells, indicating an upward gradient from SWBZ to FWBZ.

8.4.5 Trends in Groundwater Contaminant Concentrations

Trends in groundwater contaminant concentrations in selected wells over time are displayed on Figure 8-5. MTBE concentrations in the majority of wells sampled are within a limited range over time. Greater variations in MTBE concentrations, such as those reported in cross-gradient wells M07A-09 and M07A-08 in Winter 2003 and Spring 2004, may indicate a seasonal lateral expansion of the plume or a potential contribution of an offsite MTBE source.

8.5 CONCLUSIONS AND RECOMMENDATIONS

IR Site 7 contaminant of concern MTBE in excess of the MCL occurs in the northeastern portion of the site, extending beyond the northeastern and eastern site perimeters. MTBE has been consistently detected at these wells during recent monitoring events. Additionally, the analytical results for TPH as diesel, jet fuel, and motor oil indicate a substantial decrease during the Summer 2005 and Spring 2006 sampling rounds in all FWBZ wells.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 8-1
Groundwater Monitoring Summary, IR Site 7 - Summer 2005 and Spring 2006

				Organic Compounds				Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells													
First	M07A-01	Fill-BSU	3 - 9.5	X	X	X	X	X	X	X	X	X	X
	M07A-02	Fill-BSU	5 - 15.5	X	X	X	X	X	X	X	X	X	X
	M07A-03	Fill-BSU	7 - 15.5	X	X	X	X	X	X	X	X	X	X
	M07A-05	Fill-BSU	5.5 - 15	X	X	X	X	X	X	X	X	X	X
	M07A-07	Fill-BSU	3 - 10	X	X	X	X	X	X	X	X	X	X
	M07A-08	Fill-BSU	2.5 - 11	X	X	X	X	X	X	X	X	X	X
	M07A-09	Fill-BSU	2.5 - 11	X	X	X	X	X	X	X	X	X	X
	M07A-10	Fill-BSU	2.5 - 10.5	X	X	X	X	X	X	X	X	X	X
	M07A-11	Fill-BSU	2.5 - 10.5			X	X						
Second	D07A-01	USA	58 - 68	X	X	X	X	X	X	X	X	X	X
	D07A-02	USA	50 - 60	X	X	X	X	X	X	X	X	X	X
	D07A-03	Merritt-USA	50 - 60	X	X	X	X	X	X	X	X	X	X
Non-Program Wells, Water Level Only													
First	M07A-04	Fill-BSU	3 - 7	-	-	-	-	-	-	-	-	-	-
	W-1	Fill-BSU	2 - 10	-	-	-	-	-	-	-	-	-	-
	W-2	Fill-BSU	2 - 10	-	-	-	-	-	-	-	-	-	-
	W-3	Fill-BSU	2 - 10	-	-	-	-	-	-	-	-	-	-
	M07A-06B	Fill-BSU	2.5 - 12	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event
Well sampled for this parameter at the Spring 2006 sampling event
Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events
\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
FT. BGS - Feet below ground surface

TPH - Total Petroleum Hydrocarbons
USA - Upper San Antonio Formation
Merritt - Merritt Sand

VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 8-2
Summary of Groundwater Level Measurements at IR Site 7
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07A-01	10.6	10.13 *	04/12/06	2.35	7.78
		10.6	10.13 *	08/23/05	3.07	7.06
		10.6	10.13 *	02/28/05	1.64	8.49
		10.6	10.13 *	11/11/04	3.11	7.02
		10.6	10.13 *	06/15/04	2.73	7.40
		10.6	10.13 *	03/01/04	NF	NC
		10.6	10.13 *	12/02/03	NF	NC
		10.6	10.13 *	09/15/03	NA	NC
		10.6	10.13 *	06/23/03	NA	NC
		10.6	10.13 *	04/07/03	2.26	7.87
		10.6	10.13 *	12/11/02	NM	NC
		10.6	10.13 *	09/10/02	3.22	6.91
		10.6	10.13 *	07/15/02	2.90	7.23
First	M07A-02	10.6	9.90 *	04/11/06	3.88	6.02
		10.6	9.90 *	08/22/05	3.33	6.57
		10.6	9.90 *	02/28/05	4.30	5.60
		10.6	9.90 *	11/11/04	5.31	4.59
		10.6	9.90 *	06/15/04	4.40	5.50
		10.6	9.90 *	03/01/04	4.72	5.18
		10.6	9.90 *	12/02/03	4.31	5.59
		10.6	9.90 *	09/15/03	4.12	5.78
		10.6	9.90 *	06/23/03	4.46	5.44
		10.6	9.90 *	04/07/03	3.38	6.52
		10.6	9.90 *	12/11/02	3.74	6.16
		10.6	9.90 *	09/10/02	2.69	7.21
		10.6	9.90 *	06/21/02	4.32	5.58
First	M07A-03	10.3	9.88 *	04/12/06	5.05	4.83
		10.3	9.88 *	08/22/05	5.74	4.14
		10.3	9.88 *	02/28/05	2.40	7.48
		10.3	9.88 *	11/11/04	6.70	3.18
		10.3	9.88 *	06/15/04	3.62	6.26
		10.3	9.88 *	03/01/04	5.02	4.86
		10.3	9.88 *	12/02/03	5.70	4.18
		10.3	9.88 *	09/15/03	4.23	5.65
		10.3	9.88 *	06/23/03	3.02	6.86
		10.3	9.88 *	04/07/03	3.16	6.72
		10.3	9.88 *	12/11/02	5.45	4.43
		10.3	9.88 *	09/10/02	3.15	6.73
		10.3	9.88 *	06/24/02	2.95	6.93
First	M07A-05	9.5	9.34	04/12/06	2.65	6.69
		9.5	9.34	08/22/05	4.06	5.28
		9.5	9.34	02/28/05	1.81	7.53
		9.5	9.34	11/11/04	2.98	6.36
		9.5	9.34	06/15/04	3.35	5.99
		9.5	9.34	03/01/04	1.48	7.86
		9.5	9.34	12/02/03	4.23	5.11
		9.5	9.34	09/15/03	4.87	4.47
		9.5	9.34	06/23/03	3.50	5.84
		9.5	9.34	04/07/03	NA	NC
		9.5	9.34	12/11/02	3.82	5.52
		9.5	9.34	09/10/02	4.04	5.30
		9.5	9.34	06/24/02	3.20	6.14
First	M07A-07	9.9	9.70 *	04/11/06	1.36	8.34
		9.9	9.70 *	08/22/05	4.10	5.60
		9.9	9.70 *	02/28/05	2.44	7.26

Table 8-2
Summary of Groundwater Level Measurements at IR Site 7
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07A-07	9.9	9.70 *	11/11/04	3.77	5.93
		9.9	9.70 *	06/15/04	3.28	6.42
		9.9	9.70 *	03/01/04	3.76	5.94
		9.9	9.70 *	12/02/03	NF	NC
		9.9	9.70 *	09/15/03	4.40	5.30
		9.9	9.70 *	06/23/03	3.64	6.06
		9.9	9.70 *	04/07/03	2.43	7.27
		9.9	9.70 *	12/11/02	5.50	4.20
		9.9	9.70 *	09/10/02	4.63	5.07
		9.9	9.70 *	06/21/02	3.41	6.29
First	M07A-08	7.8	7.55 *	04/11/06	0.80	6.75
		7.8	7.55 *	08/22/05	2.10	5.45
		7.8	7.55 *	02/28/05	0.43	7.12
		7.8	7.55 *	11/11/04	0.04	7.51
		7.8	7.55 *	06/15/04	1.85	5.70
		7.8	7.55 *	03/01/04	0.24	7.31
		7.8	7.55 *	12/02/03	0.42	7.13
		7.8	7.55 *	09/15/03	3.21	4.34
		7.8	7.55 *	06/23/03	2.18	5.37
		7.8	7.55 *	04/07/03	1.29	6.26
		7.8	7.55 *	12/11/02	0.50	7.05
		7.8	7.55 *	09/10/02	2.61	4.94
		7.8	7.55 *	06/21/02	2.58	4.97
First	M07A-09	8.7	8.39 *	04/11/06	0.86	7.53
		8.7	8.39 *	08/22/05	2.30	6.09
		8.7	8.39 *	02/28/05	0.95	7.44
		8.7	8.39 *	11/11/04	1.02	7.37
		8.7	8.39 *	06/15/04	2.35	6.04
		8.7	8.39 *	03/01/04	0.89	7.50
		8.7	8.39 *	12/02/03	0.85	7.54
		8.7	8.39 *	09/15/03	3.30	5.09
		8.7	8.39 *	06/23/03	4.00	4.39
		8.7	8.39 *	04/07/03	1.78	6.61
		8.7	8.39 *	12/11/02	1.25	7.14
		8.7	8.39 *	09/10/02	2.70	5.69
		8.7	8.39 *	06/21/02	2.77	5.62
First	M07A-10	8.13	8.13	04/11/06	0.6	7.53
		8.13	8.13	08/22/05	2.65	5.48
		8.13	8.13	02/28/05	0.45	7.68
		8.13	8.13	11/11/04	1.12	7.01
		8.13	8.13	06/15/04	2.42	5.71
First	M07A-11	7.38	7.38	04/11/06	1.22	6.16
		7.38	7.38	08/22/05	2.40	4.98
		7.38	7.38	02/28/05	1.34	6.04
		7.38	7.38	11/11/04	1.39	5.99
		7.38	7.38	06/15/04	2.19	5.19

Table 8-2
Summary of Groundwater Level Measurements at IR Site 7
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D07A-01	5.9	6.11 *	04/12/06	2.35	3.76
		5.9	6.11 *	08/22/05	1.33	4.78
		5.9	6.11 *	02/28/05	0.16	5.95
		5.9	6.11 *	11/11/04	1.00	5.11
		5.9	6.11 *	06/15/04	0.79	5.32
		5.9	6.11 *	03/01/04	0.12	5.99
		5.9	6.11 *	12/02/03	1.43	4.68
		5.9	6.11 *	09/15/03	1.50	4.61
		5.9	6.11 *	06/23/03	1.23	4.88
		5.9	6.11 *	04/07/03	1.36	4.75
		5.9	6.11 *	12/18/02	1.33	4.78
		5.9	6.11 *	09/10/02	2.00	4.11
		5.9	6.11 *	07/03/02	1.80	4.31
Second	D07A-02	10.5	10.29 *	04/12/06	2.13	8.16
		10.5	10.29 *	08/22/05	3.08	7.21
		10.5	10.29 *	02/28/05	1.82	8.47
		10.5	10.29 *	11/11/04	3.02	7.27
		10.5	10.29 *	06/15/04	2.83	7.46
		10.5	10.29 *	03/01/04	1.84	8.45
		10.5	10.29 *	12/02/03	3.31	6.98
		10.5	10.29 *	09/15/03	3.40	6.89
		10.5	10.29 *	06/23/03	3.12	7.17
		10.5	10.29 *	04/07/03	3.14	7.15
		10.5	10.29 *	12/11/02	3.58	6.71
		10.5	10.29 *	09/10/02	3.80	6.49
		10.5	10.29 *	07/08/02	3.56	6.73
Second	D07A-03	10.6	10.30 *	04/11/06	1.92	8.38
		10.6	10.30 *	08/22/05	2.84	7.46
		10.6	10.30 *	02/28/05	1.81	8.49
		10.6	10.30 *	11/11/04	2.73	7.57
		10.6	10.30 *	06/15/04	3.13	7.17
		10.6	10.30 *	03/01/04	1.62	8.68
		10.6	10.30 *	12/02/03	3.17	7.13
		10.6	10.30 *	09/15/03	3.30	7.00
		10.6	10.30 *	06/23/03	3.03	7.27
		10.6	10.30 *	04/07/03	3.16	7.14
		10.6	10.30 *	12/11/02	3.76	6.54
		10.6	10.30 *	09/10/02	3.90	6.40
		10.6	10.30 *	07/03/02	3.70	6.60

Notes:

BTOC = below top of casing

msl = mean sea level

NA = Monitoring well not accessible

NC = Groundwater elevation not calculated

NF = Monitoring well not found

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

Table 8-3

Groundwater Sample Analytical Results at IR Site 7: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-01	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**1,200**	**94.0**	**820**	< 50.0	**2,114**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 290	< 200	< 50.0	< 290	< 0.50 UJ	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-02	2005 02 (Summer)	**79.0**	< 50.0	< 300	< 50.0	**79.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**2,600**	**300**	**880**	< 50.0	**3,780**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-03	2006 01 (Spring)	< 50.0	< 50.0	**170 J**	< 50.0	**170**	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 10.0	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2005 02 (Summer)	**74.0**	< 50.0	**330**	**21.0 J**	**425**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**2,300 J**	**320**	**470**	< 50.0	**3,090**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**2,600**	**370**	**640**	< 50.0	**3,610**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**42.0 J**	< 50.0	**250 J**	< 50.0	**292**	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**190**	< 280	**280**	< 50.0	**470**	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**300**	< 280	**130 J**	< 50.0	**430**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**1.0 J**	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-05	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**1,300**	**230**	**500**	< 50.0	**2,030**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.2 J**	**1.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	**130 J**	< 280	**130 J**	< 50.0	**260**	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	**0.74 J**	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**160 J**	< 290	< 200	< 50.0	**160**	**0.28 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.96 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	**2.5 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-07	2005 02 (Summer)	**170**	< 50.0	**120 J**	< 50.0	**290**	**0.30 J**	< 0.50	**0.50**	**0.30 J**	**0.20 J**	**6.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**13,000 J**	**2,400 J**	**1,800 J**	< 50.0 UJ	**17,200**	**0.30 J**	< 0.50 UJ	**0.60 J**	**0.30 J**	**0.30 J**	**2.8 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.10 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**14,000**	**2,400**	**1,900**	< 50.0	**18,300**	**0.40 J**	< 0.50	**0.60**	**0.40 J**	**0.30 J**	**9.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**210**	**100**	< 300	< 50.0	**310**	**0.20 J**	< 0.50	**0.50 J**	**0.30 J**	**0.20 J**	**5.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	**750**	< 280	**270**	< 50.0	**1,020**	**0.22 J**	< 1.0 UJ	**0.57 J**	**0.49 J**	**0.35 J**	**4.1**	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	**0.30 J**	< 1.0	**0.47 J**	**0.34 J**	**0.29 J**	**6.4**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 8-3

Groundwater Sample Analytical Results at IR Site 7: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds								Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-07	2003 02 (Summer)	**220**	< 290	< 190	< 50.0	**220**	< 0.50	< 1.0	**0.40 J**	< 1.0	**0.26 J**	**4.3**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	**310**	**130**	**130 J**	< 50.0	**570**	**0.20 J**	< 0.50	**0.40 J**	**0.20 J**	**0.40 J**	**4.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	**170**	**94.0**	**170 J**	< 50.0	**434**	< 0.50 J	**0.30 J**	**0.40 J**	**0.30 J**	< 0.50	**5.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	**230**	**70.0**	**130 J**	< 50.0	**430**	**0.40 J**	**0.10 J**	**0.40 J**	**0.30 J**	**0.20 J**	< 4.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50	< 0.60	< 0.50	< 0.50	**5.3 J**	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50
	M07A-08	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**7.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**310 J**	< 50.0 UJ	< 300 UJ	< 50.0 UJ	**310**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	**17.0 J**	**0.20 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	**770**	**67.0**	**700**	< 50.0	**1,537**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**3.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**9.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**12.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	**180 J**	< 50.0	**180**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**53.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**13.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**4.8 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**2.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**31.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	**15.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-09	2005 02 (Summer)	**120**	< 50.0	< 300	< 50.0	**120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**840 J**	**83.0**	**370**	< 50.0	**1,293**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**820**	**57.0**	**530**	< 50.0	**1,407**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**6.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**3.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**30.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	**23.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.65 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**120 J**	< 280	< 190	< 50.0	**120**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**4.0**	< 0.50	**1.8**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	**35.0 J**	< 50.0	< 300	< 50.0	**35.0**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**370**	**67.0**	**450**	< 50.0	**887**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 2.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M07A-10	2006 01 (Spring)	< 50.0	< 50.0	**160 J**	< 50.0	**160**	**0.10 J**	**0.10 J**	**0.10 J**	< 0.50	< 0.50	< 2.0	**2.5**	**0.10 J**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**3.9**	**0.90**	**1.5**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**16.0**	**0.40 J**	**0.80**	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	**190**	**0.40 J**	**0.90 J**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.0**	**1.0**	**1.9**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
	M07A-11	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**15.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**17.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 6.7	**22.0**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**42.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Innovative Technical Solutions, Inc.

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 8-3

Groundwater Sample Analytical Results at IR Site 7: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D07A-01	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.80**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	**240**	< 50.0	**240**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	**2.5 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**2.9 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**4.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**5.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D07A-02	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D07A-03	2005 02 (Summer)	< 50.0	< 50.0	**87.0 J**	< 50.0	**87.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 8-4

Groundwater Sample Analytical Results at IR Site 7: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs															
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-01	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.12 J**	< 0.19	< 0.10	< 0.95	< 0.10	**0.13**
		2005 01 (Spring)	< 0.95 UJ	< 1.9 UJ	**0.070 J**	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	**0.10 J**	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	**0.090 J**	**0.14 J**
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.12 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	M07A-02	2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.12 J**	< 0.19	< 0.10	< 0.96	< 0.10	**0.16**
		2005 01 (Spring)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.11 J**	< 0.19	< 0.10	< 0.97	< 0.10	**0.14**
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.093 J**	< 1.0	< 1.0	< 1.0	< 1.0	**0.88 J**
	M07A-03	2006 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.060 J**	**7.8**	< 0.10	< 0.96	< 0.10	**0.050 J**
		2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	**0.050 J**
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.83 J**
	M07A-05	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.51**	< 0.19	< 0.10	< 0.95	< 0.10	**0.50**
		2005 01 (Spring)	< 0.94	< 1.9	**0.090**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.56**	< 0.19	< 0.090	**0.25 J**	< 0.090	**0.58**
		2004 04 (Winter)	< 1.0	< 1.0	**0.084 J**	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0	**1.1**
	M07A-07	2005 02 (Summer)	**1.0**	< 1.9	**0.55**	**0.22**	**0.24**	**0.12 J**	**0.22**	**0.050 J**	**0.22**	**0.22**	**4.8**	**0.32**	**0.18**	**3.8**	**1.5**	**4.1**
		2005 01 (Spring)	< 0.98 UJ	< 2.0 UJ	< 0.10 UJ	**0.11 J**	**0.10 J**	**0.080 J**	< 0.20 UJ	< 0.10 UJ	**0.13 J**	< 0.20 UJ	**3.1 J**	**0.75 J**	**0.030 J**	**7.7 J**	< 0.10 UJ	**2.8 J**
		2004 04 (Winter)	< 1.0	< 1.0	**0.65 J**	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	**0.12 J**	< 1.0	< 1.0	< 1.0	< 1.0	**5.4**	**0.95 J**	**2.0**
	M07A-08	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	**0.030 J**
		2005 01 (Spring)	< 0.95 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.95 UJ	< 0.10 UJ	< 0.10 UJ
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.77 J**
	M07A-09	2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.060 J**	< 0.19	< 0.10	< 0.96	< 0.10	**0.12**
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	M07A-10	2006 01 (Spring)	< 0.97	< 1.9	< 0.10	**0.030 J**	< 0.10	< 0.19	< 0.19	< 0.10	**0.020 J**	< 0.19	**0.45**	< 0.19	< 0.10	< 0.97	< 0.10	**0.63**
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	**0.050 J**	**0.010 J**	< 0.19	< 0.19	< 0.10	**0.030 J**	< 0.19	**0.89**	< 0.19	< 0.10	< 0.95	< 0.10	**1.2**
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.22**	< 0.19	< 0.10	< 0.95	< 0.10	**0.41**
		2004 04 (Winter)	< 1.0	< 1.0	**0.067 J**	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	M07A-11	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	**0.040 J**
		2005 01 (Spring)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SWBZ	D07A-01	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	**0.030 J**
		2005 01 (Spring)	< 0.97	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.97	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	D07A-02	2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2005 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	D07A-03	2005 02 (Summer)	< 0.96	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.96	< 0.10	< 0.10
		2005 01 (Spring)	< 0.98	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	< 0.10	< 0.98	< 0.10	< 0.10
		2004 04 (Winter)	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 8-5

Groundwater Sample Analytical Results at IR Site 7: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M07A-01	2005 02 (Summer)	0.97 J	7.2	**620**	< 2.0	0.58 J	1.1 J	1.5	< 10.0	< 3.0	**2,300**	< 0.20	< 20.0	**10.0 J**	< 5.0	< 5.0	< 5.0	**11.0**	**11.0 J**	**120 J**	**11,000**	350	370	100	3,100
		2004 04 (Winter)	0.37 J	6.6	**550**	0.90 J	< 5.0	< 10.0	0.98 J	< 10.0	< 3.0	**2,000**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	**11.0**	< 20.0	< 100	**13,000**	100	25.0	100	41.0
		2004 02 (Summer)	3.0	**12.0**	**520**	< 1.0	< 5.0	2.5 J	1.2	1.9	0.17 J	**1,900**	< 0.20	1.2 J	**12.0**	< 5.0	< 1.0	< 5.0	6.8 J	< 1.0	< 50.0	**17,000**	370	450	110	3,800
		2004 01 (Spring)	< 5.0	**8.1 J**	**446**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,870 J**	< 1.0	< 50.0	**10.4 J**	< 20.0	< 10.0	< 10.0	6.1 J	**118**	< 200	**15,400 J**	310 J	364	96.0	2,830
		2002 02 (Summer)	0.20 J	< 5.0	**630**	< 2.0	< 5.0	< 10.0	1.2 J	< 10.0	< 3.0	**2,200**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	6.8 J	< 20.0	5.1 J	**16,000**	360	420	110	3,300
	M07A-02	2005 02 (Summer)	0.89 J	3.0 J	110 J	0.056 J	< 5.0	**15.0**	4.2	3.9 J	< 3.0	**3,000 J**	< 0.20	0.61 J	**8.0 J**	**45.0**	< 5.0	0.35 J	**12.0**	**72.0**	< 100	**6,100**	100 J	23.0 J	6.0 J	62.0 J
		2004 04 (Winter)	0.47 J	3.3 J	**200**	< 2.0	< 5.0	**17.0**	3.6	< 10.0	< 3.0	< 10.0	< 0.20	1.3 J	1.9 J	< 5.0	< 5.0	< 5.0	**17.0**	8.8 J	< 100	< 100	**450**	1,300	350	< 100
		2004 02 (Summer)	0.42 J	< 15.0	**570**	0.38 J	< 5.0	**6.5 J**	4.6	< 10.0	0.34 J	450	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	**9.4 J**	**28.0**	< 50.0	**4,400**	**590**	1,300	290	9,600
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**323**	< 4.0	< 5.0	**6.1 J**	< 10.0	< 10.0	< 10.0 UJ	161	-	< 50.0	< 20.0	< 20.0	< 10.0	-	**18.2 J**	< 20.0	< 200	36.9 J	**395**	1,160	398	9,100
		2003 02 (Summer)	< 50.0	< 50.0	**557**	< 4.0	< 5.0	**12.5**	2.4 J	< 10.0	< 10.0	313	< 0.40	< 50.0	2.5 J	< 20.0	< 10.0	< 100	**15.5 J**	< 20.0	< 200	719	**680**	1,660	427	10,900 J
		2002 04 (Winter)	0.31 J	-	**610**	< 2.0	< 50.0 UJ	**9.2 J**	4.2 J	2.9 J	0.26 J	520	< 0.20	< 200	**9.8 J**	< 5.0	< 50.0	< 2.0	**13.0 J**	< 20.0	< 100	**2,200**	**520**	1,100	260	9,400
		2002 02 (Summer)	0.39 J	< 5.0	**510**	< 2.0	< 5.0	**18.0**	4.2 J	**7.8 J**	< 3.0	760	< 0.20	< 20.0	**9.6 J**	< 5.0	< 5.0	< 2.0	**14.0**	< 20.0	< 100	**13,000**	**500**	1,100	210	8,100
	M07A-03	2006 01 (Spring)	0.35 J	1.8 J	**420**	0.45 J	0.76 J	**8.7 J**	2.6	< 10.0	< 3.0	440	0.10 J	0.28 J	4.3 J	< 5.0	< 5.0	< 5.0	**10.0**	< 20.0	< 100	**4,300**	320	950	220	7,200
		2005 02 (Summer)	4.0	5.8	86.0	< 2.0	< 5.0	1.4 J	0.29 J	< 10.0	< 3.0	150	**0.17 J**	4.5 J	1.4 J	0.56 J	< 5.0	< 5.0	1.4 J	6.9 J	< 100	420	31.0	15.0	18.0	140
		2004 04 (Winter)	< 1.0	< 1,000	**400**	< 400	< 1,000	< 2,000	4.2	< 2,000	< 600	320 J	< 0.20	< 4,000	< 4,000	< 1,000	< 1,000	< 1,000	< 2,000	< 4,000	< 20,000	< 20,000	340 J	940	280	7,200
		2004 02 (Summer)	2.5	< 8.4	**420**	0.54 J	< 5.0	**5.1 J**	4.3	< 10.0	0.13 J	870	< 0.20	< 20.0	3.0 J	< 5.0	1.4 J	< 1.0	**11.0**	**25.0**	< 50.0	**12,000**	**390**	1,200	280	9,300
		2003 04 (Winter)	< 5.0	< 50.0	**344**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	300	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	**16.1 J**	< 20.0	< 200	45.9 J	314	999	383	9,150
		2003 02 (Summer)	< 50.0	< 50.0	**413**	< 4.0	< 5.0	**8.4 J**	3.7 J	< 10.0	< 10.0	448	< 0.40 UJ	< 50.0	2.8 J	< 20.0	< 10.0	< 100	**12.8 J**	< 20.0	< 200	623	**415**	1,220	302 J	8,300
		2002 04 (Winter)	0.46 J	< 5.0	**410**	0.024 J	< 5.0	**8.7 J**	4.0 J	**9.1 J**	< 3.0	560	< 0.20	< 20.0	**11.0 J**	< 5.0	< 5.0	< 2.0	**15.0**	< 20.0	< 100	**12,000**	330	990	270	7,900
		2002 02 (Summer)	0.22 J	< 5.0	**390 J**	< 2.0	< 5.0	**21.0**	3.8 J	**3.9 J**	0.038 J	470	< 0.20	< 20.0	5.1 J	< 5.0	1.6 J	< 2.0	**22.0**	< 20.0	7.0 J	**4,100**	**400**	1,200	260	9,200
	M07A-05	2005 02 (Summer)	1.1	< 5.0	**420**	< 2.0	< 5.0	**14.0**	2.6	< 10.0	< 3.0	63.0	< 0.20	2.3 J	2.3 J	< 5.0	< 5.0	< 5.0	**18.0**	10.0 J	< 100	< 100	**420**	1,300	320	10,000
		2004 04 (Winter)	0.41 J	< 1,000	**300**	< 400	< 1,000	< 2,000	3.2	< 2,000	< 600	< 2,000	< 0.20	< 4,000	< 4,000	< 1,000	< 1,000	< 1,000	< 2,000	< 4,000	< 20,000	< 20,000	**490 J**	1,300	400	9,700
		2004 02 (Summer)	0.73 J	< 1.0	**590**	< 1.0	< 1.0	**14.0**	3.4	**7.6**	0.46 J	280	**0.13 J**	< 20.0	**9.5**	< 5.0	< 1.0	0.32 J	**13.0**	< 1.0	2.5 J	930 J	**400**	1,200	280	10,000
		2003 04 (Winter)	< 25.0 UJ	< 50.0	**277**	< 4.0	< 5.0	**7.7 J**	< 10.0	< 10.0	< 10.0 UJ	13.4	**0.24 J**	< 50.0	< 20.0	**5.6 J**	< 10.0	-	**22.3 J**	< 20.0	< 200	< 100	**442**	1,850	586	14,400
		2003 02 (Summer)	< 50.0	**19.8 J**	**394**	< 4.0	1.0 J	**4.1 J**	2.3 J	< 10.0	< 10.0	424 J	< 0.40	< 50.0	**11.9 J**	< 20.0	< 10.0	< 100	7.7 J	< 20.0	< 200	**19,000**	**392 J**	1,270 J	269 J	8,660 J
		2002 04 (Winter)	0.42 J	-	**730**	< 2.0	< 50.0 UJ	**10.0**	3.3 J	**4.4 J**	0.18 J	170	< 0.20	< 200	**17.0 J**	< 5.0	< 50.0	< 2.0	**14.0 J**	< 20.0	48.0 J	**1,700**	**470**	1,500	310	13,000
		2002 02 (Summer)	0.45 J	< 5.0	**280 J**	< 2.0	< 5.0	**21.0**	3.3 J	**5.2 J**	0.11 J	51.0	< 0.20	0.58 J	6.6 J	< 5.0	0.29 J	0.27 J	**31.0**	< 20.0	7.2 J	1,200	**450**	1,400	310	12,000
	M07A-07	2005 02 (Summer)	0.51 J	**20.0**	**950**	< 2.0	**1.4 J**	**4.7 J**	3.9	< 10.0	< 3.0	1,100	< 0.20	< 20.0	**11.0 J**	< 5.0	< 5.0	< 5.0	0.90 J	**15.0 J**	< 100	**28,000**	240	880	220	6,800
		2004 04 (Winter)	0.56 J	**24.0**	**1,100**	< 2.0	1.3 J	3.3 J	4.0	< 10.0	< 3.0	920	< 0.20	< 20.0	**7.6 J**	< 5.0	< 5.0	< 5.0	3.6 J	**12.0 J**	< 100	**32,000**	230	850	200	7,500
		2004 02 (Summer)	2.6	**31.0**	**1,100**	< 2.0	< 5.0	**3.9 J**	4.0	< 10.0	0.56 J	1,100	< 0.20	< 20.0	**8.5 J**	< 5.0	**2.3 J**	0.80 J	5.8 J	**17.0 J**	< 50.0	**28,000**	58.0	200	250	1,800
		2003 02 (Summer)	< 50.0	**23.8 J**	**1,360**	< 4.0	**2.2 J**	2.2 J	3.4 J	1.6 J	< 10.0	854	< 0.40	< 50.0	**8.8 J**	< 20.0	< 10.0	< 100	3.3 J	< 20.0	< 200	**42,900**	259 J	991	209	7,560 J
		2002 04 (Winter)	0.38 J	-	< 830	< 2.0	< 100 UJ	3.1 J	3.9 J	**6.7 J**	0.87 J	950	< 0.20	< 400	**12.0 J**	< 5.0	< 100	< 2.0	1.0 J	< 20.0	85.0 J	**28,000 J**	250	870	200	7,600
		2002 02 (Summer)	0.52 J	< 5.0	**630**	< 2.0	< 5.0	**8.9 J**	3.8 J	4.0 J	**1.7 J**	860	< 0.20	< 20.0	**9.2 J**	< 5.0	< 5.0	< 2.0	3.0 J	< 20.0	5.3 J	**1,800**	210	780	170	6,600
	M07A-08	2005 02 (Summer)	0.54 J	< 5.0	**330**	< 2.0	0.71 J	1.5 J	1.5	< 10.0	< 3.0	**4,900**	< 0.20	1.5 J	3.2 J	< 5.0	< 5.0	**4.7 J**	0.97 J	**19.0 J**	94.0 J	**16,000**	**650**	740	120	3,900
		2004 04 (Winter)	0.22 J	< 5.0	**140**	< 2.0	< 5.0	< 10.0	0.72 J	< 10.0	< 3.0	**1,500**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**2,100**	200	240	58.0	1,900
		2004 02 (Summer)	0.23 J	5.4	89.0	< 1.0	< 5.0	0.77 J	0.35 J	5.5	0.21 J	630	0.061 J	3.1 J	2.8	< 5.0	< 1.0	< 5.0	2.5 J	**16.0**	2.0 J	700	86.0	93.0	40.0	1,300
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**138**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**1,440**	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**2,160**	158	166	50.7	1,430
		2003 02 (Summer)	< 50.0	< 50.0	**376**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2,520**	< 0.40 UJ	< 50.0	2.8 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**4,700**	267	299	64.7 J	2,020

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 8-5

Groundwater Sample Analytical Results at IR Site 7: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																		Common Rock-forming Elements					
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
			BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M07A-08	2002 04 (Winter)		< 50.0	-	< 240	< 2.0	< 50.0 UJ	0.84 J	2.1 J	3.2 J	0.11 J	**5,400**	< 0.20	< 200	7.0 J	< 5.0	< 50.0	< 2.0	< 10.0 UJ	7.0 J	< 100	**7,800**	**560**	590	120	3,700
		2002 02 (Summer)		< 50.0	< 5.0	**330**	< 2.0	< 5.0	1.4 J	0.39 J	1.5 J	< 3.0	**1,900**	< 0.20	< 20.0	3.3 J	< 5.0	< 5.0	< 2.0	1.6 J	< 20.0	12.0 J	**7,100**	190	210	55.0	1,600
	M07A-09	2005 02 (Summer)		8.0	**59.0**	**170**	< 2.0	< 5.0	< 10.0	2.4	< 10.0	< 3.0	**1,300**	< 0.20	**15.0 J**	4.4 J	< 5.0	< 5.0	< 5.0	**15.0**	**31.0**	95.0 J	**7,600**	340	690	200	5,100
		2004 04 (Winter)		0.71 J	< 5.0	**130**	< 2.0	< 5.0	< 10.0	0.93 J	**3.6 J**	< 3.0	190	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	1,400	280	390	87.0	2,800
		2004 02 (Summer)		0.92 J	< 5.0	48.0	< 1.0	< 5.0	0.76 J	0.58 J	**14.0**	**2.0**	260	0.063 J	3.3 J	5.2	< 5.0	< 1.0	< 5.0	2.5 J	**15.0**	4.7 J	**1,700**	81.0	130	45.0	1,400
		2003 04 (Winter)		< 5.0 UJ	< 50.0	65.2 J	< 4.0	< 5.0	< 10.0	< 10.0	**10.3**	< 10.0 UJ	250	-	< 50.0	< 20.0	< 20.0	< 10.0	-	6.3 J	< 20.0	< 200	**2,020**	136	160	50.0	1,500
		2003 02 (Summer)		**14.9 J**	**41.2 J**	**353**	< 4.0	1.1 J	**5.5 J**	3.7 J	< 10.0	< 10.0	1,010 J	< 0.40	5.2 J	< 20.0	< 20.0	< 10.0	< 100	**29.5 J**	< 20.0	< 200	**21,400**	**503 J**	1,400 J	360 J	8,960 J
		2002 04 (Winter)		0.51 J	-	< 250	< 2.0	< 130 UJ	2.5 J	1.3 J	4.3 J	0.30 J	490	< 0.20	< 500 UJ	6.4 J	< 5.0	< 130	< 2.0	1.5 J	< 20.0	26.0 J	**4,900**	300	480	120	3,600
		2002 02 (Summer)		1.6 J	< 5.0	**360**	< 2.0	0.21 J	**19.0**	3.3 J	**14.0**	**4.5**	1,100	< 0.20	< 20.0	**13.0 J**	< 5.0	**1.8 J**	< 2.0	**19.0**	< 20.0	**1,300**	**19,000**	360	970	270	7,600
	M07A-10	2006 01 (Spring)		< 1.0	**8.4**	**340**	0.43 J	0.31 J	3.2 J	0.45 J	2.2 J	< 3.0	**1,700**	0.099 J	0.76 J	1.4 J	< 5.0	< 5.0	< 5.0	6.4 J	3.6 J	< 100	**12,000**	240	310	79.0	2,200
	D07A-01	2005 02 (Summer)		0.38 J	< 5.0	**250**	< 2.0	< 5.0	< 10.0	0.55 J	< 10.0	< 3.0	**6,700**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	**5.7**	< 10.0	10.0 J	< 100	**7,500**	**790**	940	43.0	1,700
		2004 04 (Winter)		0.14 J	< 5.0	**290**	< 2.0	< 5.0	< 10.0	1.2	< 10.0	< 3.0	**7,800**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	**4.3 J**	< 10.0	< 20.0	< 100	**9,100**	**910**	1,100	46.0	3,500
		2004 02 (Summer)		0.21 J	< 5.0	**280**	< 2.0	< 5.0	0.78 J	1.1	< 10.0	0.097 J	**8,600**	< 0.20	< 20.0	0.84 J	< 5.0	< 5.0	< 1.0	< 10.0	9.0 J	< 50.0	**9,100**	**960**	1,100	46.0	3,900
		2003 04 (Winter)		< 5.0	< 50.0	**382**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6,860 J**	< 0.40	< 50.0	< 20.0	**5.9 J**	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**8,170**	**750**	957	63.4	3,740
		2003 02 (Summer)		< 50.0	< 50.0	**557**	< 4.0	< 5.0	< 10.0	< 10.0	1.7 J	< 10.0	**8,960**	< 0.40	< 50.0	1.4 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**10,700**	**1,050**	1,240	96.8	3,860 J
		2002 04 (Winter)		< 50.0	-	**610**	< 2.0	< 50.0 UJ	1.2 J	1.5 J	3.0 J	0.17 J	**7,800**	< 0.20	< 200	**8.6 J**	< 5.0	< 50.0	< 2.0	< 10.0 UJ	< 20.0	< 100	**11,000**	**840**	1,000	62.0	3,700
		2002 02 (Summer)		0.093 J	< 5.0	**880**	< 2.0	< 5.0	**14.0 J**	1.4 J	4.2 J	< 3.0 UJ	**8,000**	< 0.20	1.2 J	**10.0 J**	-	< 5.0	< 2.0	3.4 J	< 20.0	17.0 J	**9,300**	**940**	1,100	63.0	4,200
SWBZ	D07A-02	2005 02 (Summer)		0.55 J	**19.0**	**1,600**	< 2.0	< 5.0	1.5 J	**8.6**	< 10.0	< 3.0	**6,800**	**0.11 J**	< 20.0	**17.0 J**	**13.0**	< 5.0	< 5.0	0.40 J	**110**	< 100	**14,000**	**640**	980	31.0	3,400
		2004 04 (Winter)		< 1.0	< 500	**2,000**	< 200	< 500	< 1,000	**9.0**	< 1,000	< 300	**7,400**	< 0.20	< 2,000	< 2,000	< 500	< 500	< 500	< 1,000	< 2,000	< 10,000	**17,000**	**750 J**	1,100	38.0	4,000
		2004 02 (Summer)		0.15 J	< 1.0	**1,900**	< 1.0	< 5.0	1.0	**9.2**	6.9	0.26 J	**7,100**	0.053 J	< 20.0	**19.0**	< 1.0	< 5.0	< 1.0	0.85 J	< 1.0	< 50.0	**16,000**	**770**	1,200	40.0	4,500
		2003 04 (Winter)		< 5.0	**22.7 J**	**1,620**	< 4.0	< 5.0	< 10.0	**7.5 J**	< 10.0	< 10.0	**6,010 J**	< 0.40	< 50.0	**16.4 J**	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	**14,000**	**627**	1,050	43.7	4,640
		2003 02 (Summer)		**18.1 J**	**29.0 J**	**2,100**	< 4.0	0.89 J	< 10.0	**7.1 J**	1.4 J	< 10.0	**7,440**	< 0.40	< 50.0	**9.3 J**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**17,500**	**839**	1,290	63.1	449 J
		2002 04 (Winter)		< 50.0	-	**1,900**	< 2.0	< 50.0 UJ	0.85 J	**7.5 J**	3.3 J	0.068 J	**7,000**	< 0.20	< 200 UJ	**17.0 J**	< 5.0	< 50.0	< 2.0	< 10.0 UJ	< 20.0	< 100	**17,000**	**710**	1,100	37.0	4,300
		2002 02 (Summer)		< 50.0	**29.0**	**1,600**	< 2.0	< 5.0	**22.0**	**6.6 J**	**8.3 J**	< 3.0	**6,600**	< 0.20	< 20.0	< 30.0	**48.0 J**	< 5.0	< 2.0	8.0 J	< 20.0	< 100	**14,000**	**720**	1,100	33.0	4,300
	D07A-03	2005 02 (Summer)		0.82 J	7.9	**130**	< 2.0	0.26 J	1.2 J	2.6	**5.7 J**	< 3.0	**7,500 J**	< 0.20	0.60 J	6.0 J	**12.0**	< 5.0	0.72 J	1.9 J	**73.0**	< 100	**8,600**	**650 J**	1,200 J	33.0 J	4,500 J
		2004 04 (Winter)		0.23 J	**13.0**	100	< 2.0	0.55 J	2.6 J	2.4	< 10.0	< 3.0	**6,600**	< 0.20	2.6 J	3.6 J	< 5.0	< 5.0	**6.3**	3.1 J	< 20.0	< 100	**3,200**	**680**	1,100	35.0	4,600
		2004 02 (Summer)		0.23 J	< 16.0	110	< 2.0	< 5.0	0.80 J	3.1	< 10.0	0.66 J	**8,000**	< 0.20	< 20.0	4.2 J	< 5.0	< 5.0	< 1.0	< 10.0	**25.0**	< 50.0	**3,800**	**800**	1,300	37.0	5,600
		2003 04 (Winter)		< 5.0 UJ	< 50.0	98.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**6,980**	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**4,060**	**758**	1,310	42.7	5,240
		2003 02 (Summer)		< 50.0	7.6 J	**130**	< 4.0	< 5.0	< 10.0	< 10.0	**3.5 J**	< 10.0	**8,820**	< 0.40	< 50.0	6.5 J	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**5,210**	**764**	1,290	56.7	4,550 J
		2002 04 (Winter)		< 50.0	-	< 250	< 2.0	< 130 UJ	0.91 J	3.1 J	2.1 J	0.088 J	**7,400**	< 0.20	< 500	**10.0 J**	< 5.0	< 130	< 2.0	1.5 J	< 20.0	< 100	**5,200**	**670**	1,200	30.0	4,800
		2002 02 (Summer)		0.089 J	< 5.0	120	< 2.0	0.10 J	**8.6 J**	4.6 J	5.9 J	< 3.0 UJ	**7,800**	< 0.20	0.86 J	**13.0 J**	-	< 5.0	< 2.0 UJ	3.4 J	< 20.0	4.4 J	**8,500**	**720**	1,200	32.0	4,600

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

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Table 8-6
Groundwater Sampling Field Parameters at IR Site 7
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M07A-01	09/13/05	6.04	0.50	-184
		03/08/05	6.10	1.78	-204
		12/03/04	6.93	0.18	-55
		07/01/04	6.42	0.14	-91
		03/10/04	6.69	0.32	-195
		07/15/02	6.66	***-0.61***	-136
First	M07A-02	09/09/05	6.63	0.36	-309
		03/03/05	7.00	***10.92***	-358
		11/29/04	6.60	0.07	-240
		06/30/04	6.62	0.19	-319
		12/11/03	6.56	0.15	-276
		06/27/03	6.74	0.14	-193
		12/18/02	6.08	***29.69***	-244
		06/21/02	6.77	1.00	-127
First	M07A-03	05/04/06	6.58	0.43	-241
		09/09/05	6.60	0.93	-260
		03/03/05	6.98	0.23	-341
		11/30/04	6.78	0.13	-210
		06/30/04	6.55	0.19	-345
		03/05/04	6.66	0.41	-168
		12/10/03	6.52	0.17	-163
		09/23/03	6.62	0.24	-220
		06/30/03	6.63	0.17	-224
		04/10/03	6.68	0.06	-200
		12/24/02	NM	NM	0.0
		09/18/02	6.53	0.60	-131.3
		06/24/02	6.78	1.30	-143
First	M07A-05	09/13/05	6.15	0.00	-341
		03/07/05	6.66	0.24	-359
		11/30/04	6.72	0.11	-298
		07/02/04	6.51	0.22	-230
		12/11/03	6.53	0.18	-264
		06/30/03	6.88	0.12	-327
		12/18/02	***10.82***	1.90	-334
		06/24/02	6.83	0.70	-165
First	M07A-07	09/13/05	6.28	0.44	-193
		03/08/05	6.76	0.21	-199
		11/30/04	6.89	0.15	-103
		06/30/04	6.59	0.19	-344
		03/05/04	6.65	0.24	-108
		09/23/03	6.54	0.40	-294
		06/27/03	6.82	0.21	-124
		04/09/03	6.71	0.20	-52
		12/18/02	6.02	3.36	-176.7
		09/12/02	6.74	0.50	-156.2
		06/21/02	6.78	1.60	-127
First	M07A-08	09/12/05	6.24	0.35	-261

Table 8-6
Groundwater Sampling Field Parameters at IR Site 7
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M07A-08	03/08/05	7.28	3.95	-342
		12/01/04	6.89	0.16	-192
		07/01/04	6.79	0.30	-190
		03/05/04	7.06	0.15	-138
		12/11/03	6.63	0.35	28
		09/23/03	6.62	0.13	-177
		06/30/03	6.86	0.22	-251
		04/09/03	6.90	2.50	-113
		12/18/02	***6.00***	***9.37***	-209
		09/11/02	NM	NM	NM
		06/21/02	6.57	***15.51***	-111.8
First	M07A-09	09/12/05	6.55	0.50	-201
		03/03/05	7.28	0.00	-154
		12/01/04	6.73	0.19	163
		07/01/04	6.61	0.14	-152
		03/05/04	7.02	0.22	-115
		12/11/03	6.75	0.30	75
		09/23/03	***9.71***	0.36	-109
		06/30/03	6.96	0.61	***-1190.61***
		04/10/03	6.89	0.14	-120
		12/18/02	6.12	5.49	-151.8
		09/11/02	NM	NM	NM
		06/21/02	6.69	1.50	-131.2
First	M07A-10	05/04/06	6.6	1.99	-312
		09/12/05	6.28	0.19	-252
		03/07/05	6.17	0.85	-255
		11/30/04	6.98	0.09	-81
		07/01/04	6.51	0.21	-6.0
First	M07A-11	09/12/05	6.36	0.46	-172
		03/03/05	7.26	3.03	-152
		12/01/04	6.70	0.15	39
		07/01/04	6.47	0.08	-11
Second	D07A-01	09/13/05	6.06	0.34	-126
		03/03/05	7.04	0.04	-177
		12/01/04	6.58	0.14	146
		06/30/04	6.57	0.96	-96
		12/09/03	6.75	2.27	21
		06/27/03	6.36	0.16	-293
		12/18/02	***9.33***	0.00	-204
		07/03/02	***5.99***	1.60	-57
Second	D07A-02	09/09/05	6.45	0.45	-118
		03/03/05	6.83	0.60	-100
		11/30/04	6.60	0.16	22
		06/29/04	6.38	0.15	-288
		12/09/03	6.53	0.29	11
		06/27/03	6.44	0.14	-301
		12/18/02	***8.62***	0.00	***-1290***

Table 8-6
Groundwater Sampling Field Parameters at IR Site 7
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D07A-02	07/08/02	*-0.01*	-84	
Second	D07A-03	09/09/05	6.58	0.44	-94
		03/03/05	7.16	3.06	-195
		11/29/04	6.64	0.11	62
		06/30/04	6.73	0.15	-345
		12/11/03	6.66	0.20	59
		06/27/03	6.62	0.11	-284
		12/18/02	6.32	3.26	-62.1
		07/03/02	*5.80*	1.30	-58

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 8-7
Groundwater Sample Analytical Results at IR Site 7: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-01	2005 02 (Summer)	< 0.0050	< 0.0050	**7.5**	< 0.50	< 1.0	**5,900**	**170**	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**15.0**	< 0.50	< 0.50	**4,700**	**94.0**	**1,400**	**1,400**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**8.4**	< 0.50	< 0.50	**5,400**	**77.0**	**1,900**	**1,900**	< 1.0	< 1.0	**0.050**
		2002 02 (Summer)	< 0.010	< 0.010	**4.8**	< 0.50	< 0.50	**5,600**	**290**	**2,000**	**2,000**	< 1.0	< 1.0	**0.12**
	M07A-02	2005 02 (Summer)	< 0.0050	< 0.0050	**8.3**	< 1.0	< 2.5	**15,000**	< 10.0	**2,300**	**2,300**	< 1.0	< 1.0	**11.0 J**
		2004 04 (Winter)	< 0.0050	< 0.0050	**12.0**	< 1.3	< 2.5	**20,000**	**4.0 J**	**4,300**	**4,300**	< 1.0	< 1.0	**46.0**
		2004 02 (Summer)	< 0.010 J	< 0.010 J	**3.9 J**	< 1.3	< 2.5	**16,000**	< 13.0	**3,300**	**3,300**	< 1.0	< 1.0	**6.9**
		2003 04 (Winter)	< 0.0030	< 0.0030	**2.3**	**15.1 J**	-	**15,900**	**25.5**	**3,010**	**3,010**	< 5.0	-	**50.2**
		2003 02 (Summer)	< 0.0030	< 0.0030	**4.3**	< 1.0	-	**32,800**	**3.2 J**	**3,300**	-	-	-	**25.6**
		2002 04 (Winter)	< 0.010	< 0.010	**4.0**	< 1.3	< 2.5	**16,000**	**46.0**	**3,200**	**3,200**	< 1.0	< 1.0	**15.0**
		2002 02 (Summer)	< 0.010	< 0.010	**8.3**	< 0.50	< 1.0	**15,000**	**85.0**	**3,200**	**3,200**	< 1.0	< 1.0	< 0.040
	M07A-03	2006 01 (Spring)	< 0.025	< 0.025	**10.0**	< 1.0	< 2.5	**13,000**	**6.8 J**	**2,100**	**2,100**	< 1.0	< 1.0	**1.2**
		2005 02 (Summer)	< 0.0050	< 0.0050	**5.7**	< 1.0	< 2.5	**15,000**	**2.0 J**	**2,200**	**2,200**	< 1.0	< 1.0	**8.0**
		2004 04 (Winter)	< 0.0050	< 0.0050	**11.0 J**	< 1.3	< 2.5	**17,000**	**2.1 J**	**1,500**	**1,500**	< 1.0	< 1.0	**9.6**
		2004 02 (Summer)	< 0.010	< 0.010	**7.4**	< 1.3	< 2.5	**15,000**	**14.0**	**2,300**	**2,300**	< 1.0	< 1.0	**0.98**
		2003 04 (Winter)	< 0.0030	< 0.0030	**3.4**	< 1.0	< 1.0	**15,300**	**3.8 J**	**2,750**	**2,750**	< 5.0	-	**14.9**
		2003 02 (Summer)	< 0.0030	< 0.0030	**4.0**	< 1.0	< 1.0	**17,400**	**4.5 J**	**2,340**	-	-	-	**12.2**
		2002 04 (Winter)	< 0.010	< 0.010	**11.0**	< 2.5	< 2.5	**16,000**	**64.0**	**2,400**	**2,400**	< 1.0	< 1.0	**1.8**
		2002 02 (Summer)	< 0.010	< 0.010	**6.7**	< 0.50	< 0.50	**15,000**	**83.0**	**2,200**	**2,200**	< 1.0	< 1.0	**0.77**
	M07A-05	2005 02 (Summer)	< 0.0050	< 0.0050	**7.3**	< 1.3	< 2.5	**22,000**	**19.0**	**4,000**	**4,000**	< 1.0	< 1.0	**44.0**
		2004 04 (Winter)	< 0.0050	< 0.0050	**12.0 J**	< 1.3	< 2.5	**23,000**	**5.6 J**	**4,100**	**4,100**	< 1.0	< 1.0	**39.0**
		2004 02 (Summer)	< 0.010	< 0.010	**11.0**	< 1.3	< 2.5	**17,000**	**33.0**	**2,900**	**2,900**	< 1.0	< 1.0	**15.0**
		2003 04 (Winter)	< 0.0030	< 0.0030	**2.2**	**22.6 J**	-	**23,800**	**103**	**4,200**	**4,200**	< 5.0	-	**109**
		2003 02 (Summer)	< 0.0030	< 0.0030	**2.9**	< 1.0	< 50.0 UJ	**19,600**	-	**2,500**	-	-	-	**6.4**
		2002 04 (Winter)	< 0.010	< 0.010	**8.8**	< 1.3	< 2.5	**19,000**	**70.0**	**3,200**	**3,200**	< 1.0	< 1.0	**7.7**
		2002 02 (Summer)	< 0.010	< 0.010	**5.9**	< 0.50	< 0.50	**17,000**	**83.0**	**2,500**	**2,500**	< 1.0	< 1.0	**2.9**
	M07A-07	2005 02 (Summer)	< 0.0050	< 0.0050	**8.6**	< 1.0	< 2.5	**13,000**	< 10.0	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**12.0 J**	< 1.0	< 1.3	**15,000**	< 10.0	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**6.4**	< 1.3	< 2.5	**15,000**	< 13.0	**2,200**	**2,200**	< 1.0	< 1.0	< 0.040
		2003 02 (Summer)	< 0.0030	< 0.0030	**2.5**	< 1.0	< 500 UJ	**26,600**	< 5.0	**2,090**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**7.6**	< 1.3	< 1.3	**13,000**	< 13.0	**2,000**	**2,000**	< 1.0	< 1.0	**0.050**
		2002 02 (Summer)	< 0.010	< 0.010	**11.0**	< 0.50	< 0.50	**13,000**	**5.8**	**2,200**	**2,200**	< 1.0	< 1.0	< 0.040
	M07A-08	2005 02 (Summer)	< 0.0050	< 0.0050	**2.6**	< 1.0	< 1.3	**10,000**	**870**	**650**	**650**	< 1.0	< 1.0	**2.4**
		2004 04 (Winter)	< 0.0050	< 0.0050	**3.3**	< 0.25	< 0.50	**3,600**	**310**	**460**	**460**	< 1.0	< 1.0	**1.5 J**
		2004 02 (Summer)	< 0.010	< 0.010	**3.7**	< 0.10	< 0.25	**1,700**	**130**	**430**	**430**	< 1.0	< 1.0	**1.7**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.37**	**2.3 J**	-	**1,950**	**233**	**326**	**326**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.82**	< 1.0	< 1.0	**4,150**	**173**	**670**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**1.4**	< 0.50	< 0.50	**6,000**	**760**	**290**	**290**	< 1.0	< 1.0	**0.070**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 8-7
Groundwater Sample Analytical Results at IR Site 7: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Dissolved Gases			Anions				Alkalinity				Sulfide
				Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
			Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07A-08	2002 02 (Summer)		< 0.010	< 0.010	**1.9**	< 0.25	< 0.25	**3,100**	**140**	**610**	**610**	< 1.0	< 1.0	< 0.040
	M07A-09	2005 02 (Summer)		< 0.0050	< 0.0050	**7.2**	< 1.0	< 1.3	**10,000**	**690**	**1,400**	**1,400**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**7.3**	**0.25 J**	< 0.50	**5,300**	**320**	**650**	**650**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	**6.6**	< 0.25	< 0.25	**2,100**	**150**	**480**	**480**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**1.7**	**1.2 J**	-	**2,100**	**281**	**361**	**361**	< 5.0	-	< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**2.4**	< 1.0	< 50.0 UJ	**14,200**	**67.1**	**2,800**	-	-	-	< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	**7.3**	< 0.50	< 0.50	**5,200**	**530**	**540**	**540**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	**11.0**	< 0.50	< 0.50	**14,000**	**22.0**	**3,100**	**3,100**	< 1.0	< 1.0	< 0.040
	M07A-10	2006 01 (Spring)		< 0.025	< 0.025	**15.0**	< 0.25	< 0.50	**3,800**	**29.0**	**880**	**880**	< 1.0	< 1.0	**4.5**
	D07A-01	2005 02 (Summer)		< 0.0050	< 0.0050	**0.21**	< 0.50	< 1.0	**7,800**	**830**	**670**	**670**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**0.19 J**	< 1.0	< 1.0	**9,600**	**960**	**620**	**620**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	**0.086**	< 0.50	< 1.3	**8,800**	**930**	**610**	**610**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**0.14**	< 1.0	-	**8,660**	**996**	**831**	**831**	< 5.0	-	< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.31**	< 1.0	-	**9,370**	**880**	**749**	-	-	-	< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	**0.44**	< 0.50	< 1.3	**8,900**	**740**	**890**	**890**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	**2.4**	< 0.50	< 0.50	**9,100**	**620**	**900**	**900**	< 1.0	< 1.0	< 0.040
SWBZ	D07A-02	2005 02 (Summer)		< 0.0050	< 0.0050	**0.0040 J**	< 1.0	< 1.3	**10,000**	**150**	**1,200**	**1,200**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**3.0 J**	< 1.0	< 1.3	**11,000**	**160**	**1,200**	**1,200**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	**11,000**	**150**	**1,200**	**1,200**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**0.0037**	**8.0**	-	**11,200**	**166**	**811**	**811**	< 5.0	-	< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.0020 J**	< 1.0	-	**17,700**	**141**	**1,200**	-	-	-	< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	< 0.010	< 0.50	< 1.3	**11,000**	**150**	**1,200**	**1,200**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	**0.017**	< 0.50	< 0.50	**11,000**	**160**	**1,200**	**1,200**	< 1.0	< 1.0	< 0.040
	D07A-03	2005 02 (Summer)		< 0.0050	< 0.0050	**0.010**	< 1.0	< 1.3	**11,000**	**810**	**880**	**880**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**0.013**	< 1.0	< 1.3	**11,000**	**870**	**850**	**850**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	**0.010**	< 1.3	< 1.3	**11,000**	**830**	**800**	**800**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**0.0079**	**9.7 J**	-	**9,610**	**872**	**850**	**850**	< 5.0	-	< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.0060**	< 1.0	-	**11,400**	**752**	**749**	-	-	-	< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	**0.011**	< 1.0	< 1.0	**11,000**	**790**	**900**	**900**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**12,000**	**760**	**890**	**890**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 8-8

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	4	9	2.0 J	M07A-07	12 Sep 2005	12.0 J	M07A-08	2004 01 (Spring)
Benzene (UG/L)	3	9	0.30 J	M07A-05	13 Sep 2005	0.40 J	M07A-07	2004 04 (Winter)
TPH-Diesel (UG/L)	4	8	170	M07A-07	12 Sep 2005	14000	M07A-07	2004 04 (Winter)
Toluene (UG/L)	1	9	0.10 J	M07A-10	04 May 2006	0.40 J	M07A-09	2002 03 (Fall)
Ethylbenzene (UG/L)	2	9	0.50	M07A-07	12 Sep 2005	0.60 J	M07A-07	2005 01 (Spring)
TPH-Motor Oil (UG/L)	3	8	330	M07A-03	09 Sep 2005	1900	M07A-07	2004 04 (Winter)
M,P-xylenes (UG/L)	1	9	0.30 J	M07A-07	12 Sep 2005	0.49 J	M07A-07	2004 01 (Spring)
TPH-Gasoline (UG/L)	1	8	21.0 J	M07A-03	09 Sep 2005	--	NA	NA
O-xylene (UG/L)	1	9	0.20 J	M07A-07	12 Sep 2005	0.40 J	M07A-07	2003 01 (Spring)
1,1-Dichloroethane (UG/L)	1	9	0.20 J	M07A-10	12 Sep 2005	0.30 J	M07A-10	2004 02 (Summer)
Naphthalene (UG/L)	1	9	6.3	M07A-07	12 Sep 2005	9.9	M07A-07	2004 04 (Winter)
Carbon Disulfide (UG/L)	7	9	0.80	M07A-03	09 Sep 2005	13.0	M07A-05	2002 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	5	9	15.0	M07A-11	12 Sep 2005	190	M07A-10	2004 04 (Winter)
Chlorobenzene (UG/L)	1	9	0.90	M07A-10	12 Sep 2005	1.0	M07A-10	2004 02 (Summer)
1,2-Dichlorobenzene (UG/L)	1	9	1.5	M07A-10	12 Sep 2005	1.9	M07A-10	2004 02 (Summer)
1,4-Dichlorobenzene (UG/L)	1	9	0.30 J	M07A-10	12 Sep 2005	0.30 J	M07A-10	2004 02 (Summer)
Isopropyl Ether (UG/L)	2	9	10.0	M07A-11	12 Sep 2005	17.0 J	M07A-08	2003 03 (Fall)
Tert-butyl alcohol (UG/L)	2	9	17.0	M07A-03	09 Sep 2005	48.0	M07A-10	2004 04 (Winter)
1,2,4-Trimethylbenzene (UG/L)	1	9	0.20 J	M07A-07	12 Sep 2005	0.30 J	M07A-07	2002 03 (Fall)

Result exceeds Maximum Contaminant Level (MCL)

Table 8-8

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
TPH-Motor Oil (UG/L)	1	3	87.0 J	D07A-03	09 Sep 2005	240	D07A-01	2003 04 (Winter)
Carbon Disulfide (UG/L)	1	3	0.10 J	D07A-02	09 Sep 2005	--	NA	NA
Methyl tert-butyl ether (MTBE) (UG/L)	1	3	1.2	D07A-01	13 Sep 2005	5.4	D07A-01	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 8-8

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (First Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	1	9	1.0	M07A-07	12 Sep 2005	--	NA	NA
Anthracene (UG/L)	1	9	0.55	M07A-07	12 Sep 2005	0.65 J	M07A-07	2004 04 (Winter)
Benzo(a)anthracene (UG/L)	2	9	0.22	M07A-07	12 Sep 2005	0.11 J	M07A-07	2005 01 (Spring)
Benzo(a)pyrene (UG/L)	2	9	0.24	M07A-07	12 Sep 2005	0.10 J	M07A-07	2005 01 (Spring)
Benzo(b)fluoranthene (UG/L)	1	9	0.12 J	M07A-07	12 Sep 2005	0.080 J	M07A-07	2005 01 (Spring)
Benzo(g,h,i)perylene (UG/L)	1	9	0.22	M07A-07	12 Sep 2005	--	NA	NA
Benzo(k)fluoranthene (UG/L)	1	9	0.050 J	M07A-07	12 Sep 2005	--	NA	NA
Chrysene (UG/L)	2	9	0.22	M07A-07	12 Sep 2005	0.13 J	M07A-07	2005 01 (Spring)
Dibenz(a,h)anthracene (UG/L)	1	9	0.22	M07A-07	12 Sep 2005	--	NA	NA
Fluoranthene (UG/L)	7	9	4.8	M07A-07	12 Sep 2005	3.1 J	M07A-07	2005 01 (Spring)
Fluorene (UG/L)	2	9	7.8	M07A-03	04 May 2006	0.75 J	M07A-07	2005 01 (Spring)
Indeno(1,2,3-c,d)pyrene (UG/L)	1	9	0.18	M07A-07	12 Sep 2005	0.030 J	M07A-07	2005 01 (Spring)
Naphthalene (UG/L)	1	9	6.3	M07A-07	12 Sep 2005	9.9	M07A-07	2004 04 (Winter)
Phenanthrene (UG/L)	1	9	1.5	M07A-07	12 Sep 2005	0.95 J	M07A-07	2004 04 (Winter)
Pyrene (UG/L)	9	9	4.1	M07A-07	12 Sep 2005	2.8 J	M07A-07	2005 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 8-8

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (Second Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Pyrene (UG/L)	1	3	0.030 J	D07A-01	12 Sep 2005	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 8-8

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	7	8	8.0	M07A-09	12 Sep 2005	14.9 J	M07A-09	2003 02 (Summer)
Arsenic (UG/L)	6	8	59.0	M07A-09	12 Sep 2005	41.2 J	M07A-09	2003 02 (Summer)
Barium (UG/L)	8	8	950	M07A-07	12 Sep 2005	1360	M07A-07	2003 02 (Summer)
Beryllium (UG/L)	3	8	0.45 J	M07A-03	04 May 2006	0.90 J	M07A-01	2004 04 (Winter)
Cadmium (UG/L)	5	8	1.4 J	M07A-07	12 Sep 2005	2.2 J	M07A-07	2003 02 (Summer)
Chromium (UG/L)	7	8	15.0	M07A-02	09 Sep 2005	21.0	M07A-03	2002 02 (Summer)
Cobalt (UG/L)	8	8	4.2	M07A-02	09 Sep 2005	4.6	M07A-02	2004 02 (Summer)
Copper (UG/L)	2	8	3.9 J	M07A-02	09 Sep 2005	14.0	M07A-09	2004 02 (Summer)
Manganese (UG/L)	8	8	4900	M07A-08	12 Sep 2005	5400	M07A-08	2002 04 (Winter)
Mercury (UG/L)	2	8	0.17 J	M07A-03	09 Sep 2005	0.24 J	M07A-05	2003 04 (Winter)
Molybdenum (UG/L)	6	8	15.0 J	M07A-09	12 Sep 2005	5.2 J	M07A-09	2003 02 (Summer)
Nickel (UG/L)	8	8	11.0 J	M07A-07	12 Sep 2005	17.0 J	M07A-05	2002 04 (Winter)
Selenium (UG/L)	2	8	45.0	M07A-02	09 Sep 2005	5.6 J	M07A-05	2003 04 (Winter)
Thallium (UG/L)	2	8	4.7 J	M07A-08	12 Sep 2005	0.80 J	M07A-07	2004 02 (Summer)
Vanadium (UG/L)	8	8	18.0	M07A-05	13 Sep 2005	31.0	M07A-05	2002 02 (Summer)
Zinc (UG/L)	8	8	72.0	M07A-02	09 Sep 2005	118	M07A-01	2004 01 (Spring)
Aluminum (UG/L)	3	8	120 J	M07A-01	13 Sep 2005	1300	M07A-09	2002 02 (Summer)
Iron (UG/L)	7	8	28000	M07A-07	12 Sep 2005	42900	M07A-07	2003 02 (Summer)
Calcium (MG/L)	8	8	650	M07A-08	12 Sep 2005	680	M07A-02	2003 02 (Summer)
Magnesium (MG/L)	8	8	1300	M07A-05	13 Sep 2005	1850	M07A-05	2003 04 (Winter)
Potassium (MG/L)	8	8	320	M07A-05	13 Sep 2005	586	M07A-05	2003 04 (Winter)
Sodium (MG/L)	8	8	10000	M07A-05	13 Sep 2005	14400	M07A-05	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 8-8

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	3	3	0.82 J	D07A-03	09 Sep 2005	18.1 J	D07A-02	2003 02 (Summer)
Arsenic (UG/L)	2	3	19.0	D07A-02	09 Sep 2005	29.0 J	D07A-02	2003 02 (Summer)
Barium (UG/L)	3	3	1600	D07A-02	09 Sep 2005	2100	D07A-02	2003 02 (Summer)
Cadmium (UG/L)	1	3	0.26 J	D07A-03	09 Sep 2005	0.89 J	D07A-02	2003 02 (Summer)
Chromium (UG/L)	2	3	1.5 J	D07A-02	09 Sep 2005	22.0	D07A-02	2002 02 (Summer)
Cobalt (UG/L)	3	3	8.6	D07A-02	09 Sep 2005	9.2	D07A-02	2004 02 (Summer)
Copper (UG/L)	1	3	5.7 J	D07A-03	09 Sep 2005	8.3 J	D07A-02	2002 02 (Summer)
Manganese (UG/L)	3	3	7500 J	D07A-03	09 Sep 2005	8960	D07A-01	2003 02 (Summer)
Mercury (UG/L)	1	3	0.11 J	D07A-02	09 Sep 2005	0.053 J	D07A-02	2004 02 (Summer)
Molybdenum (UG/L)	1	3	0.60 J	D07A-03	09 Sep 2005	2.6 J	D07A-03	2004 04 (Winter)
Nickel (UG/L)	2	3	17.0 J	D07A-02	09 Sep 2005	19.0	D07A-02	2004 02 (Summer)
Selenium (UG/L)	2	3	13.0	D07A-02	09 Sep 2005	48.0 J	D07A-02	2002 02 (Summer)
Thallium (UG/L)	2	3	5.7	D07A-01	12 Sep 2005	6.3	D07A-03	2004 04 (Winter)
Vanadium (UG/L)	2	3	1.9 J	D07A-03	09 Sep 2005	8.0 J	D07A-02	2002 02 (Summer)
Zinc (UG/L)	3	3	110	D07A-02	09 Sep 2005	25.0	D07A-03	2004 02 (Summer)
Iron (UG/L)	3	3	14000	D07A-02	09 Sep 2005	17500	D07A-02	2003 02 (Summer)
Calcium (MG/L)	3	3	790	D07A-01	12 Sep 2005	1050	D07A-01	2003 02 (Summer)
Magnesium (MG/L)	3	3	1200 J	D07A-03	09 Sep 2005	1310	D07A-03	2003 04 (Winter)
Potassium (MG/L)	3	3	43.0	D07A-01	12 Sep 2005	96.8	D07A-01	2003 02 (Summer)
Sodium (MG/L)	3	3	4500 J	D07A-03	09 Sep 2005	5600	D07A-03	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 8-8

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	8	8	4000	M07A-05	13 Sep 2005	4300	M07A-02	2004 04 (Winter)
Sulfide (MG/L)	5	8	44.0	M07A-05	13 Sep 2005	109	M07A-05	2003 04 (Winter)
Alkalinity, bicarbonate (MG/L)	8	8	4000	M07A-05	13 Sep 2005	4300	M07A-02	2004 04 (Winter)
Methane (MG/L)	8	8	15.0	M07A-10	04 May 2006	15.0	M07A-01	2004 04 (Winter)
Chloride (MG/L)	8	8	22000	M07A-05	13 Sep 2005	32800	M07A-02	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	6	8	870	M07A-08	12 Sep 2005	760	M07A-08	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

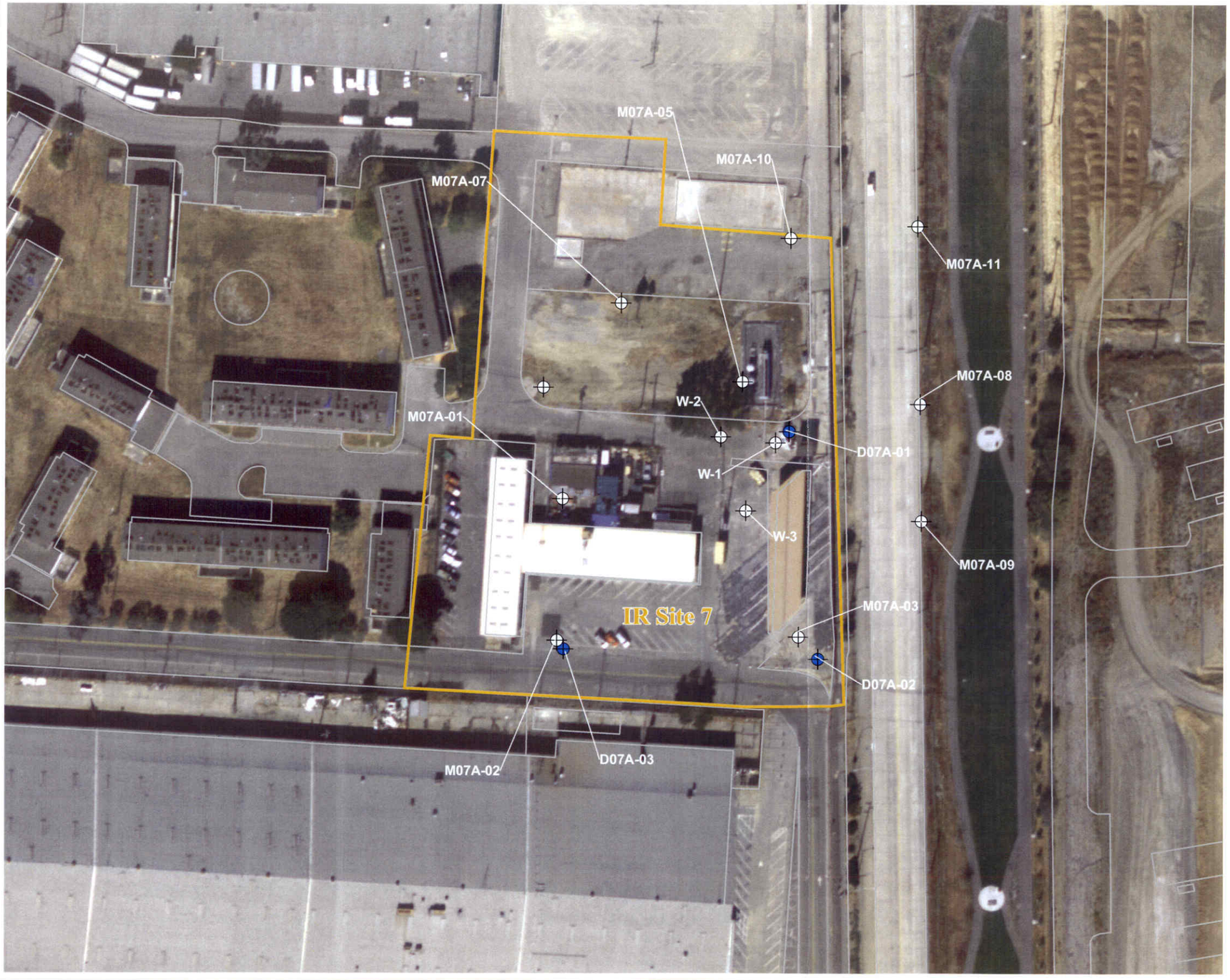
Table 8-8

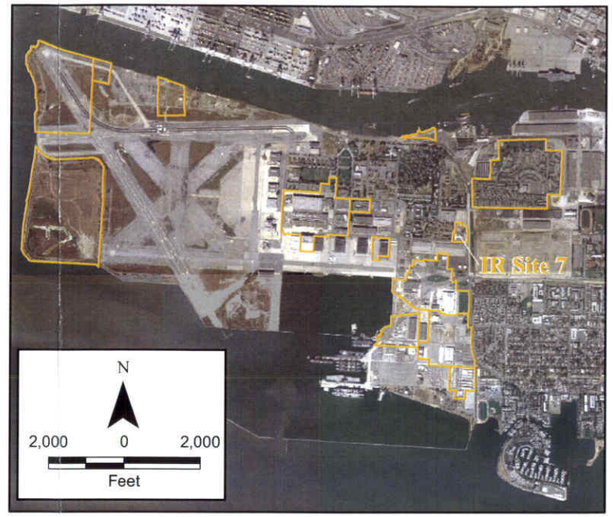
Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 7

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 7 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	3	3	1200	D07A-02	09 Sep 2005	1200	D07A-02	2004 04 (Winter)
Alkalinity, bicarbonate (MG/L)	3	3	1200	D07A-02	09 Sep 2005	1200	D07A-02	2004 04 (Winter)
Methane (MG/L)	3	3	0.21	D07A-01	13 Sep 2005	3.0 J	D07A-02	2004 04 (Winter)
Chloride (MG/L)	3	3	11000	D07A-03	09 Sep 2005	17700	D07A-02	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	3	3	830	D07A-01	12 Sep 2005	996	D07A-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES





Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

100 0 100

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004
National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\IR Site 7\IR Site 7 Location Map_NAD83.mxd

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FIGURE 8-1
IR SITE 7
SITE AND WELL LOCATION MAP

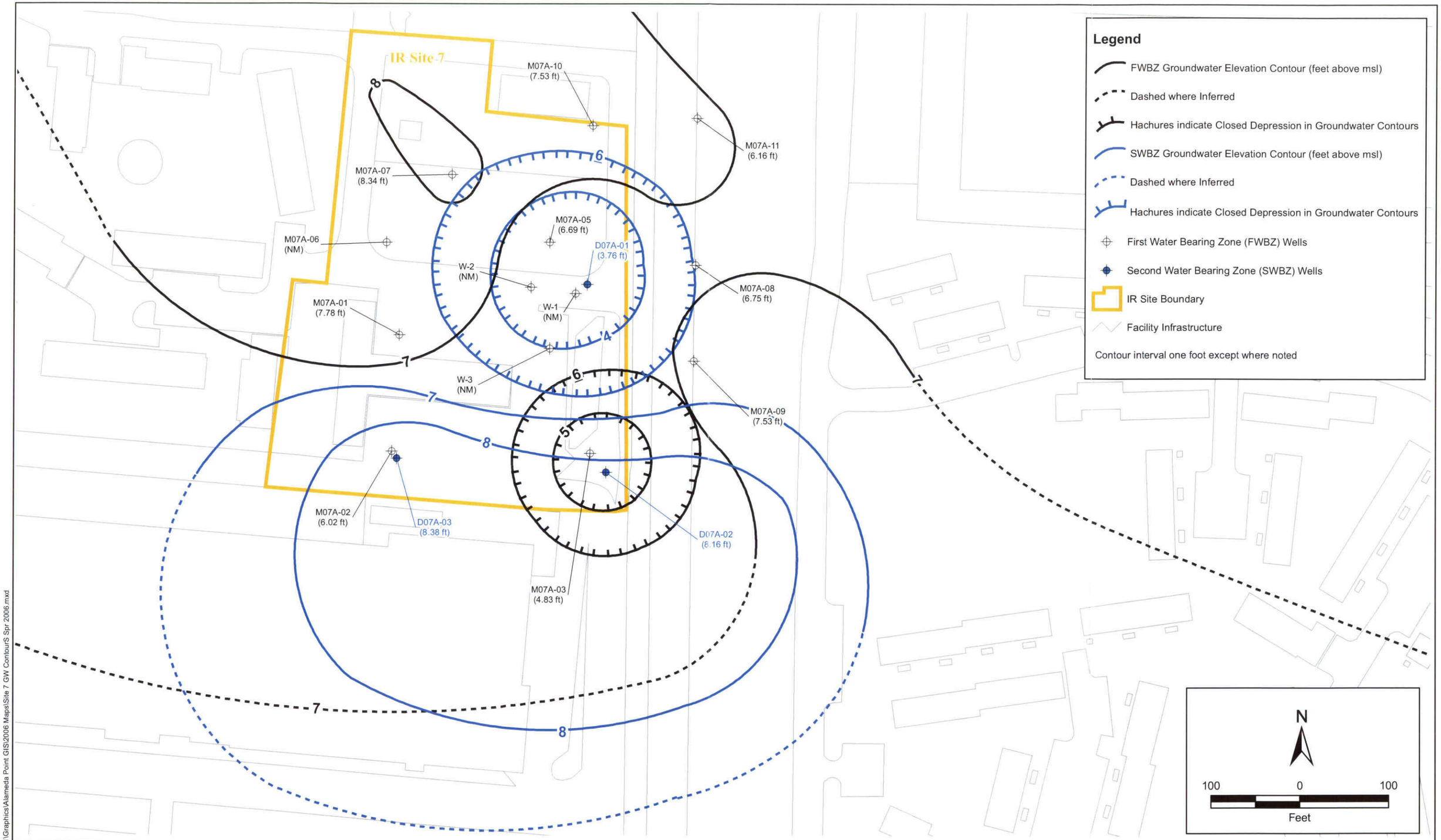

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FIGURE 8-2
IR SITE 7
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 7 MTBE Map_SP.mxd

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FIGURE 8-3
IR SITE 7
GROUNDWATER DISTRIBUTION OF
MTBE CONCENTRATIONS IN FWBZ WELLS
SPRING 2006

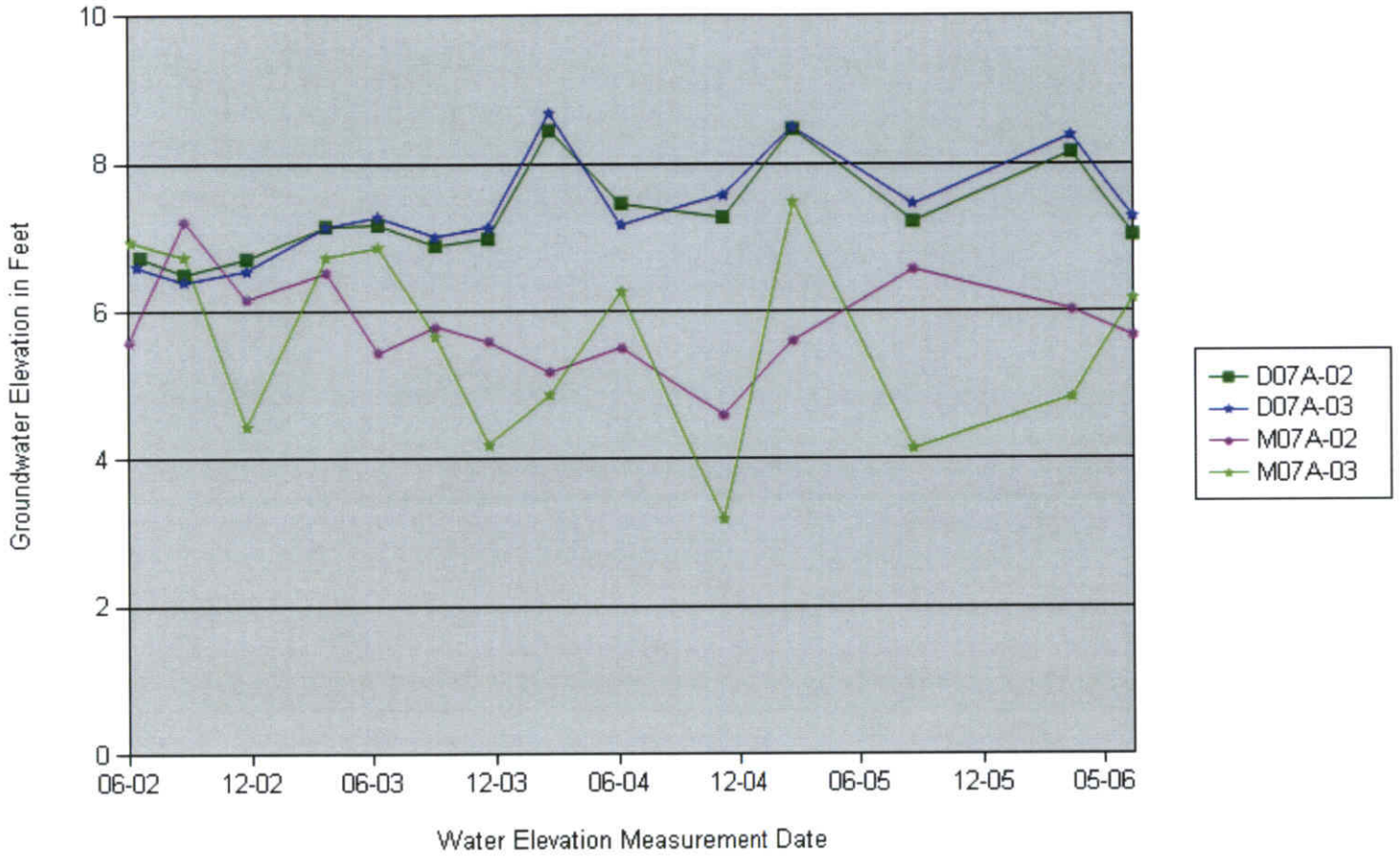

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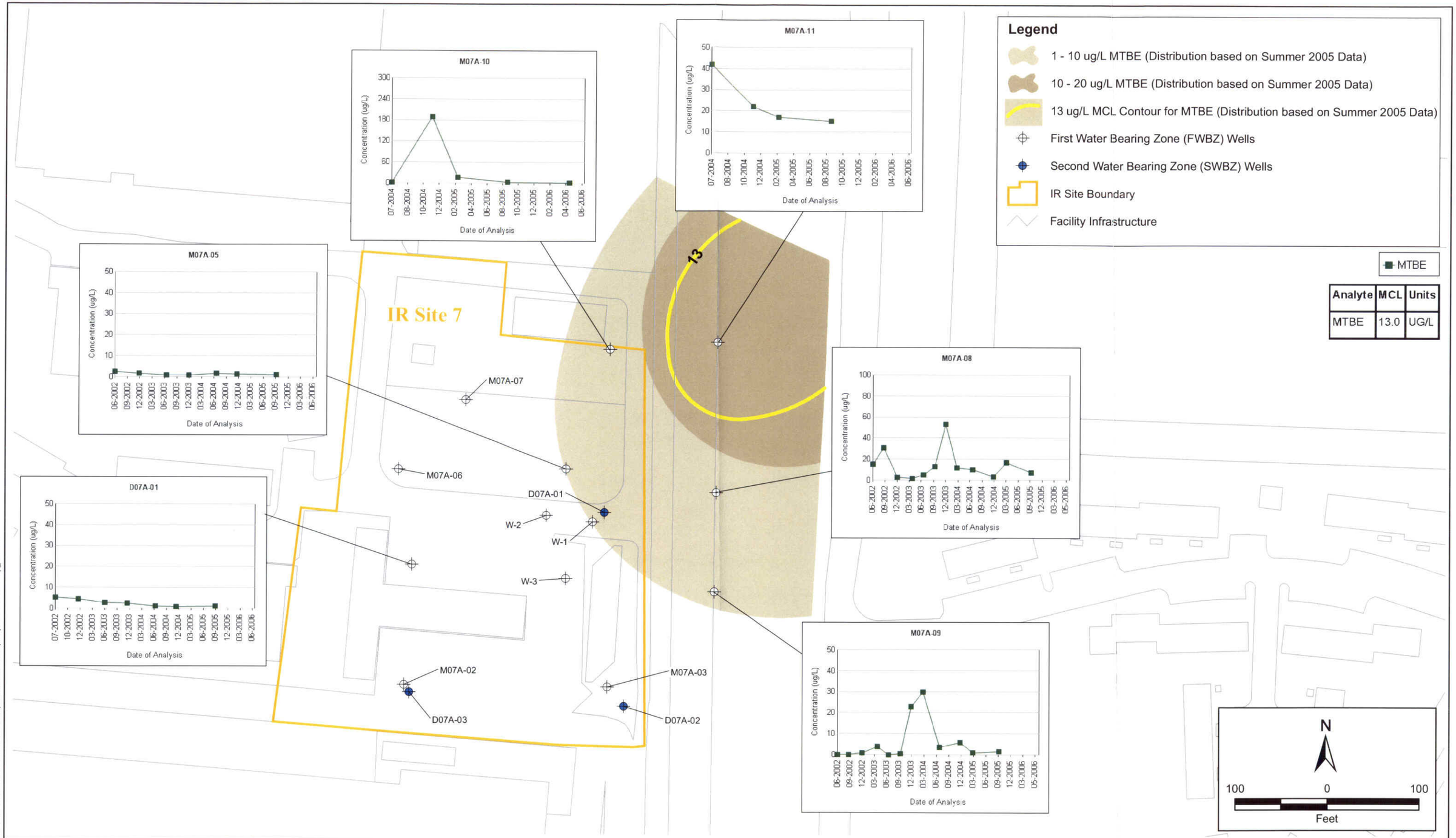
FIGURE 8-4
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 7: PAIRED WELLS (FWBZ WELL M07-03 & SWBZ WELL D07-02; FWBZ WELL M07-02 & SWBZ WELL D07-03), SUMMER 2002 THROUGH SPRING 2006



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 7 MTBE Map_SP.mxd

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FIGURE 8-5
IR SITE 7
GROUNDWATER CONCENTRATIONS OF MTBE
OVER TIME IN SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

9.0 INSTALLATION RESTORATION SITE 8

IR Site 8, the Public Works Center Shop (Building 114 and the immediate vicinity), is located in central Alameda Point, near the intersection of Saratoga Street and West Midway Avenue (Figure 1-2). Building 114 housed administrative and staff service operations. The site also formerly contained a pesticide storage and mixing area, which was the basis for the original IR site designation. According to the Final RI Report for OU-1 (TtEMI, 1999a), activities conducted from Building 114 included weed and pest control, chemical storage and mixing, and painting. Operations in Building 114 ceased in April 1997. While in operation, the Public Works Center stored pesticides in an outdoor shed at the northwestern corner of Building 114, in an interior courtyard. Potential sources of contamination include the following:

- Waste discharges to a separator pit, grease traps, storm water system, and industrial waste system
- Pesticide spills during chemical mixing and storage
- A fuel line south of Building 114

During the IR site investigation, no evidence of significant impacts to groundwater attributable to prior activities at Building 114 was found. Data collected during the investigation indicated the presence of benzene in the groundwater that is attributable to a fuel pipeline adjacent to Building 114.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 8 included sampling and analysis of eight groundwater monitoring wells (seven FWBZ wells and one SWBZ well). Two groundwater monitoring wells (in the FWBZ) were used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 9-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. Site and well locations are presented on Figure 9-1.

9.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 10 groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 8. The results are presented along with previously collected water-level data in Table 9-2. Groundwater flow direction and gradient are discussed in Section 9.4.1; trends in groundwater elevations are discussed in Section 9.4.4.

9.2 ANALYTICAL PARAMETERS

Groundwater samples collected from monitoring wells at IR Site 8 during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- TPH as diesel, motor oil, and jet fuel by EPA Method 8015B
- TPH as gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- 1,4-Dioxane by EPA Method 8270 Selective Ion Monitoring (SIM)
- Organochlorine pesticides by EPA Method 8081A
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 9-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

9.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 through Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 9-3 through 9-8 as follows:

- Table 9-3, "Groundwater Sample Analytical Results at IR Site 8: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006."
- Table 9-4, "Groundwater Sample Analytical Results at IR Site 8: 1,4-Dioxane, Summer 2002 through Spring 2006."

- Table 9-5, "Groundwater Sample Analytical Results at IR Site 8: Dissolved Metals, Summer 2002 through Spring 2006."
- Table 9-6, "Groundwater Sample Analytical Results at IR Site 8: Organochlorine Pesticides, Summer 2002 through Spring 2006."
- Table 9-7, "Groundwater Sampling Field Parameters at IR Site 8, Summer 2002 through Spring 2006".
- Table 9-8, "Groundwater Sample Analytical Results at IR Site 8: Natural Attenuation Parameters, Summer 2002 through Spring 2006."

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

9.4 DISCUSSION OF RESULTS

Groundwater samples collected in the Summer 2005 to Spring 2006 sampling year indicated that groundwater concentrations of TPH were low to non-detect for most of the site wells; the highest detected concentration of total TPH was 294 µg/L total TPH (calculated) in a groundwater sample collected from well M08-01 during Spring 2006 (Table 9-3).

Concentrations of various aromatic hydrocarbons have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ at IR Site 8. **Benzene** was the only VOC detected at concentrations exceeding its MCL in FWBZ wells during the Summer 2005 to Spring 2006 sampling year (Table 9-9). The distribution of aromatic hydrocarbons in FWBZ groundwater monitoring wells at IR Site 8 is discussed more fully in

Section 9.4.2. Chlorinated hydrocarbons have rarely been detected in FWBZ wells at IR Site 8, and were not detected above reporting limits during the Summer 2005 to Spring 2006 sampling year (Table 9-3). In the SWBZ, total petroleum hydrocarbons and VOCs have not been detected above reporting limits in the single IR Site 8 SWBZ well since sampling began in Summer 2002 (Table 9-3).

1,4-Dioxane was detected only at trace concentrations (below reporting limits) in one IR Site 8 FWBZ well during Winter 2004 (Table 9-4). The compound was not detected in the IR Site 8 SWBZ well in the current sampling year.

Only **arsenic** and **aluminum** were detected above the MCL screening criteria in the summer 2005 sampling round, but not during Spring 2006 (Table 9-5). Several detections were above background values for groundwater (TtEMI, 2001b), but these detections were significantly below MCLs.

Only one organochlorine pesticide was detected, at a trace concentration (below reporting limits) in one IR Site 8 FWBZ (M08-03) well during the Summer 2005 to Spring 2006 sampling year (Table 9-6). The detection was below the MCL, but certain previous samples (the Spring 2005 detections of heptachlor at FWBZ well M08-01 and SWBZ well D08-01) equaled the MCL. These previous detections were below reporting limits and were qualified as estimated values. Other samples from these two wells (ten previous samples and the current results from each well) did not yield detections of heptachlor.

9.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 9-2. Groundwater flow direction in the First Water-Bearing Zone at IR Site 8 is generally to towards the northeast at a gradient of approximately 0.002 feet per foot. Groundwater flow direction in the SWBZ at IR Site 8 is generally towards the west; however, a gradient cannot be calculated with any degree of accuracy, based on the sparse distribution of SWBZ wells in the vicinity. The water level in the SWBZ well at IR Site 8 in Spring 2006 was 0.66 feet lower than that in the nearby FWBZ well, indicating an overall downward vertical gradient.

9.4.2 Groundwater Contaminant Distribution

Concentrations of benzene are present in groundwater at IR Site 8. The distribution of benzene is shown on Figure 9-3. Benzene is both the most-frequently detected VOC as well as the only analyte within IR Site 8 that exceeded an MCL in the Summer 2005 to Spring 2006 sampling year. Benzene concentrations exceeding the MCL were reported from FWBZ wells M08-01 and M08-03 in the Summer 2005 event, but only at M08-01 in Spring 2006. Similar fluctuations can be observed for these wells in the sampling record since Summer 2002 (Table 9-3). The detections do not display an obvious seasonal pattern.

The arsenic and aluminum detections above MCLs in the current year, at one well each, are the only such MCL exceedances in the sampling record since 2002. Thus, it is unlikely that IR Site 8 groundwater is characterized by ongoing contamination by these metals.

Two Site 8 wells had samples exceeding an MCL for metals in the current sampling year. However, as these occurrences were the only MCL exceedances, it is unlikely that ongoing metals contamination above MCLs exists in IR Site 8.

9.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 9-9, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 9-9 also lists the historical maximum concentration (Summer 2005 through Spring 2006) for each analyte. In general, concentrations of analytes detected during the Summer 2005 through Spring 2006 sampling year were similar to those found in previous sampling years. With respect to MCL exceedances, these changes can be observed:

- Arsenic and aluminum exceeded MCLs in one event in the current sampling year, but had not previously exceeded MCLs.

9.4.4 Trends in Groundwater Elevation Data

One hydrograph was prepared for the Spring 2006 Annual Report: Figure 9-4. The following observations can be made from viewing this hydrograph:

1. Groundwater elevations for the FWBZ well (M08-02) show a seasonal pattern of higher elevations in the summer, with seasonal lows in the fall.
2. Groundwater elevations for the SWBZ well (D08-01) have a more dampened seasonal variation, with small peaks appearing in the spring or summer and seasonal lows in the fall (Figure 9-4).
3. The hydrograph for IR Site 8 wells indicates a general increase in groundwater elevations over time, with both seasonal lows and peaks showing a tendency to increase every year since 2002.

9.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of benzene, several other aromatic hydrocarbons, and total petroleum hydrocarbons have been consistently detected in groundwater at IR Site 8 since monitoring was initiated in Summer 2002. While the same set of analytes has been detected, all detections have been relatively low, and all wells have shown non-detect events interspersed with samples showing detections (Table 9-3). Trends in groundwater concentrations of selected constituents over time are shown on Figure 9-5.

The groundwater concentrations of benzene show significant fluctuations in concentration that are not confined to specific seasons. While the overall trends of the time-series plots at two wells (M08-01 and M08-05) show a general decrease in concentrations over time, the other well (M08-03) shows a slight increase in benzene concentrations over time. As noted above, similar fluctuating patterns can be discerned for other aromatic hydrocarbons and for petroleum hydrocarbons (Table 9-3). The overall pattern is that hydrocarbon contamination exists at IR Site 8, but concentrations are generally low and MCL exceedances may or may not be present at a given well from one event to the next. In addition, based on the fluctuating nature of the concentrations, there is no clear evidence for contaminant plume migration within or across the site. Time-series trends were not prepared for metals, because the two MCL exceedances to date occurred only in a single event and have not been replicated.

9.5 CONCLUSIONS AND RECOMMENDATIONS

Concentrations of benzene, several other aromatic hydrocarbons, and total petroleum hydrocarbons have been consistently detected in groundwater at IR Site 8 since monitoring was initiated in Summer 2002. While the same set of analytes has been detected, all detections have been relatively low, and all wells have shown non-detect events interspersed with samples

showing detections (Table 9-3). Among organics, only benzene has exceeded MCLs, fluctuating at concentrations below to slightly above the MCL in three wells since Summer 2002. As a result, consistent contaminant distribution in the form of contaminant plumes cannot be defined for IR Site 8, but there is no indication of plume expansion. MCL exceedances by arsenic and aluminum have only occurred once each since 2002, and likely do not signify presence of ongoing contaminant plumes.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 9-1
Groundwater Monitoring Summary, IR Site 8 - Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds					Inorganic Compounds	Natural Attenuation Parameters				
				TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Pesticides (EPA 8081A)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells														
First	M08-01	Fill	4 - 14	X	X	X	X	X	X	X	X	X	X	X
	M08-03	Fill	4 - 14	X	X	X	X	X	X	X	X	X	X	X
	M08-04	Fill	4 - 14	X	X	X	X	X		X	X	X	X	X
	M08-05	Fill	4 - 14	X	X	X	X	X	X	X	X	X	X	X
	M08-06	Fill	3.5-13.5	X	X	X	X	X	X	X	X	X	X	X
	M08-07	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X	X	X	X
	M08-08	Fill	4 - 13.5	X	X	X	X	X	X	X	X	X	X	X
Second	D08-01	Merritt	60 - 70	X	X	X	X	X	X	X	X	X	X	X
Non-Program Wells, Water Level Only														
First	MBG-01	Fill	5 - 15	-	-	-	-	-	-	-	-	-	-	-
	M08-02	Fill	4 - 14	-	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event

Well sampled for this parameter at the Spring 2006 sampling event

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 9-2
Summary of Groundwater Level Measurements at IR Site 8
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M08-01	11.48	11.14 *	04/10/06	6.61	4.53
		11.48	11.14 *	08/23/05	5.10	6.04
		11.48	11.14 *	02/28/05	4.25	6.89
		11.48	11.14 *	11/09/04	5.17	5.97
		11.48	11.14 *	03/01/04	4.28	6.86
		11.48	11.14 *	03/01/04	4.28	6.86
		11.48	11.14 *	12/03/03	5.29	5.85
		11.48	11.14 *	09/16/03	5.12	6.02
		11.48	11.14 *	06/23/03	4.43	6.71
		11.48	11.14 *	04/07/03	5.37	5.77
		11.48	11.14 *	12/11/02	6.17	4.97
		11.48	11.14 *	09/03/02	6.05	5.09
		11.48	11.14 *	06/24/02	5.85	5.29
First	M08-02 ‡	13.38	12.78 *	02/28/05	NM	NC
		13.38	12.78 *	11/09/04	7.12	5.66
		13.38	12.78 *	06/18/04	5.51	7.27
		13.38	12.78 *	03/01/04	6.58	6.20
		13.38	12.78 *	12/03/03	7.60	5.18
		13.38	12.78 *	09/16/03	6.95	5.83
		13.38	12.78 *	06/23/03	5.65	7.13
		13.38	12.78 *	04/07/03	7.48	5.30
		13.38	12.78 *	12/11/02	8.35	4.43
		13.38	12.78 *	09/03/02	8.17	4.61
		13.38	12.78 *	06/28/02	8.00	4.78
First	M08-03	11.73	11.26 *	04/10/06	4.19	7.07
		11.73	11.26 *	08/23/05	5.95	5.31
		11.73	11.26 *	02/28/05	4.73	6.53
		11.73	11.26 *	11/09/04	6.06	5.20
		11.73	11.26 *	06/17/04	5.83	5.43
		11.73	11.26 *	03/01/04	3.33	7.93
		11.73	11.26 *	12/03/03	6.40	4.86
		11.73	11.26 *	09/16/03	6.31	4.95
		11.73	11.26 *	06/23/03	5.75	5.51
		11.73	11.26 *	04/07/03	6.06	5.20
		11.73	11.26 *	12/11/02	6.81	4.45
		11.73	11.26 *	09/03/02	6.73	4.53
		11.73	11.26 *	06/25/02	6.47	4.79
First	M08-04	9.96	9.96	04/10/06	2.95	7.01
		9.96	9.96	08/23/05	4.63	5.33
		9.96	9.96	02/28/05	3.23	6.73
		9.96	9.96	11/09/04	4.74	5.22
		9.96	9.96	06/18/04	4.73	5.23
		9.96	9.96	03/01/04	2.85	7.11
		9.96	9.96	12/03/03	5.15	4.81
		9.96	9.96	09/16/03	5.12	4.84
First	M08-05	10.32	9.78 *	04/10/06	2.36	7.42
		10.32	9.78 *	08/23/05	3.91	5.87
		10.32	9.78 *	02/28/05	2.74	7.04

Table 9-2
Summary of Groundwater Level Measurements at IR Site 8
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M08-05	10.32	9.78 *	11/09/04	4.07	5.71
		10.32	9.78 *	06/17/04	4.01	5.77
		10.32	9.78 *	03/01/04	3.02	6.76
		10.32	9.78 *	12/03/03	4.46	5.32
		10.32	9.78 *	09/16/03	4.45	5.33
		10.32	9.78 *	06/23/03	3.63	6.15
		10.32	9.78 *	04/07/03	4.16	5.62
		10.32	9.78 *	12/11/02	5.02	4.76
		10.32	9.78 *	09/03/02	4.90	4.88
		10.32	9.78 *	06/25/02	4.61	5.17
First	M08-06 ‡	10.49	10.40 **	04/10/06	2.62	7.78
		10.49	10.40 **	08/23/05	4.73	5.67
		10.49	10.40 **	02/28/05	2.99	7.41
		10.49	10.40 **	11/09/04	4.68	5.72
		10.49	10.40 **	06/17/04	4.88	5.52
		10.49	10.40 **	03/01/04	3.12	7.37
		10.49	10.40 **	12/03/03	5.18	5.31
		10.49	10.40 **	09/16/03	5.20	5.29
		10.49	10.40 **	06/23/03	4.22	6.27
		10.49	10.40 **	04/07/03	4.82	5.67
First	M08-07	11.84	12.48 *	04/10/06	3.94	8.54
		11.84	12.48 *	08/23/05	5.24	7.24
		11.84	12.48 *	02/28/05	4.67	7.81
		11.84	12.48 *	11/09/04	5.45	7.03
		11.84	12.48 *	06/18/04	5.28	7.20
		11.84	12.48 *	03/01/04	3.50	8.98
		11.84	12.48 *	12/03/03	5.70	6.78
		11.84	12.48 *	09/16/03	5.52	6.96
		11.84	12.48 *	06/23/03	5.09	7.39
		11.84	12.48 *	04/07/03	5.71	6.77
		11.84	12.48 *	12/10/02	6.46	6.02
		11.84	12.48 *	09/03/02	6.18	6.30
		11.84	12.48 *	06/26/02	6.20	6.28
First	M08-08	12.66	12.66	04/10/06	5.35	7.31
		12.66	12.66	08/23/05	7.09	5.57
		12.66	12.66	02/28/05	6.10	6.56
		12.66	12.66	11/09/04	7.21	5.45
		12.66	12.66	06/18/04	6.28	6.38
Second	D08-01	12.96	12.75 *	04/10/06	6.1	6.65
		12.96	12.75 *	08/23/05	7.36	5.39
		12.96	12.75 *	02/28/05	6.95	5.80
		12.96	12.75 *	11/09/04	7.44	5.31
		12.96	12.75 *	06/17/04	7.38	5.37
		12.96	12.75 *	03/01/04	6.90	5.85
		12.96	12.75 *	12/03/03	7.70	5.05
		12.96	12.75 *	09/16/03	7.58	5.17
		12.96	12.75 *	06/23/03	7.41	5.34
		12.96	12.75 *	04/07/03	7.55	5.20

Table 9-2
Summary of Groundwater Level Measurements at IR Site 8
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D08-01	12.96	12.75 *	12/11/02	7.75	5.00
		12.96	12.75 *	09/03/02	7.73	5.02
		12.96	12.75 *	07/15/02	7.74	5.01

Notes:

BTOC = below top of casing

msl = mean sea level

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 9-3

Groundwater Sample Analytical Results at IR Site 8: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-01	2006 01 (Spring)	< 50.0	**210**	**84.0 J**	< 50.0	**294**	**16.0**	**0.090 J**	**5.2**	**1.3**	**1.2**	**100**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**0.070 J**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	**82.0 J**	< 50.0	**82.0**	**1.3**	< 0.50	**0.20 J**	**0.10 J**	**0.10 J**	**5.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**57.0 J**	< 50.0	< 300	**50.0 UJ**	**57.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**84.0**	**62.0**	< 300	< 50.0	**146**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 300	< 200	< 50.0	< 300	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**6.3**	**0.40 J**	**1.3**	**0.60**	**0.50 J**	**27.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-02	2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**25.0 J**	**25.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-03	2006 01 (Spring)	**230**	< 50.0	< 300	< 50.0	**230**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**68.0**	**60.0**	< 300	< 50.0	**163**	**7.0**	< 0.50	**0.10 J**	**0.20 J**	**0.50**	**21.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**28.0 J**	< 50.0	< 300	**35.0 J**	**63.0**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	**2.1**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**150 J**	**160**	< 300	**63.0 J**	**373**	**8.3**	**0.10 J**	**0.070 J**	**0.20 J**	**0.40 J**	**27.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**61.0**	**93.0**	< 300	< 85.0	**154**	**9.7**	< 0.50	**0.30 J**	< 0.50	**0.60**	**25.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	**0.78 J**	**0.29 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**130 J**	< 290	< 190	**54.0**	**184**	**4.5**	< 1.0	**0.87 J**	< 1.0	**0.53 J**	**10.0**	**0.60 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**130 J**	< 290	< 190	**78.0**	**208**	**2.3**	< 1.0	< 1.0	< 1.0	**0.41 J**	**7.4**	**0.25 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	**47.0 J**	**47.0**	**0.56**	< 1.0	< 1.0	< 1.0	**0.23 J**	**6.3**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	**98.0**	**100**	< 300	**68.0**	**266**	**0.30 J**	< 0.50	< 0.50	< 0.50	**0.40 J**	< 2.8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 73.0 UJ	**82.0 J**	< 300 UJ	< 50.0 UJ	**82.0**	**0.20 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**0.20 J**	**5.3 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 02 (Summer)	< 50.0	< 50.0	< 300	**44.0 J**	**44.0**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-04	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2004 04 (Winter)	< 50.0	< 50.0	< 300	**50.0 UJ**	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	M08-05	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 9-3

Groundwater Sample Analytical Results at IR Site 8: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M08-05	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**25.0 J**	< 50.0	< 300	< 50.0	**25.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**74.0 J**	< 50.0	**110 J**	**50.0 UJ**	**184**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**2.2**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	**130 J**	< 50.0	**130**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0 UJ	**2.7**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	**0.73**	< 1.0	**0.22 J**	< 1.0	< 1.0	**2.1**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 01 (Spring)	**37.0 J**	< 50.0	**88.0 J**	< 50.0	**125**	< 0.50 J	< 0.50 UJ	**0.40 J**	< 0.50 UJ	< 0.50 UJ	**7.0**	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 60.0 UJ	**210 J**	< 300 UJ	< 90.0 UJ	**210**	**18.0 J**	**0.10 J**	**8.3 J**	**1.6 J**	**1.0 J**	**120 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	**0.10 J**	**0.20 J**	**0.10 J**	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-06	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-07	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**24.0 J**	< 50.0	< 300	< 50.0	**24.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**71.0 J**	< 50.0	< 300	**50.0 UJ**	**71.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	**230**	< 50.0	**230**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	**0.83 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M08-08	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**23.0 J**	< 50.0	**120 J**	< 50.0	**143**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**38.0 J**	< 50.0	**180 J**	**50.0 UJ**	**218**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
SWBZ	D08-01	2006 01 (Spring)	< 50.0	< 50.0	**200 J**	< 50.0	**200**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 300	**23.0 J**	**23.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	**50.0 UJ**	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 9-3

Groundwater Sample Analytical Results at IR Site 8: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**1.0**	**150**	**300**	**1,750**	**1,750**	**NA**	**13.0**	**70.0**	**600**	**NA**	**5.0**	**5.0**	**5.0**	**6.0**	**6.0**	**10.0**	**5.0**	**0.50**	**200**	**0.50**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
SWBZ	D08-01	2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0 UJ	< 300	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 9-4
Groundwater Sample Analytical Results at IR Site 8: 1,4-Dioxane
Fall/Winter 2004 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			1,4-Dioxane
		Units:	UG/L
		MCL:	**NA**
		BV:	**NA**
	Well Number	Event ***AWQC:***	**NA**
FWBZ	M08-01	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.98
		2004 04 (Winter)	< 1
	M08-03	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.98
		2004 04 (Winter)	< 0.97
	M08-04	2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	**0.29 J**
	M08-05	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.94
		2004 04 (Winter)	< 0.95
	M08-07	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.97
		2004 04 (Winter)	< 1.1
	M08-08	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	< 0.97
SWBZ	D08-01	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.98

Table 9-5

Groundwater Sample Analytical Results at IR Site 8: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M08-01	2006 01 (Spring)	< 1.0	7.1	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.31 J	-	< 0.20	-	2.6 J	< 5.0	< 5.0	< 5.0	-	8.0 J	-	-	-	-	-	-	-
		2005 02 (Summer)	0.77 J	**13.0**	63.0	< 2.0	< 5.0	2.0 J	0.59 J	3.4 J	**2.0 J**	170	< 0.20	1.9 J	3.4 J	< 5.0	< 5.0	< 5.0	3.5 J	**41.0**	**1,000**	810	8.2	10.0	14.0	360
		2004 04 (Winter)	0.16 J	3.8 J	49.0	< 2.0	< 5.0	0.59 J	0.12 J	1.0 J	0.086 J	92.0	< 0.20	2.7 J	1.2 J	< 5.0	< 5.0	0.25 J	2.5 J	5.5 J	18.0 J	86.0 J	18.0	11.0	8.1	120
		2004 02 (Summer)	< 1.0	5.3	33.0	< 2.0	< 5.0	0.46 J	0.25 J	< 10.0	0.25 J	97.0	< 0.20	< 20.0	0.67 J	< 5.0	< 5.0	< 1.0	1.4 J	< 20.0	< 96.0	170	11.0	8.0	39.0	6,900
		2003 04 (Winter)	< 5.0	4.1 J	60.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	184 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	**694**	982	27.0	14.0	9.5	174
		2003 02 (Summer)	< 50.0	**8.8 J**	74.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	190	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.4 J	< 20.0	< 200	26.9 J	23.4	13.4	10.5 J	278
		2002 04 (Winter)	< 50.0	6.6	69.0	< 2.0	< 5.0	< 10.0	0.18 J	0.91 J	0.14 J	200 J	< 0.20	< 20.0	< 20.0 UJ	< 5.0	< 5.0	< 2.0	< 10.0	**13.0 J**	42.0 J	< 240	22.0	11.0	10.0	250
		2002 02 (Summer)	0.25 J	7.6	97.0 J	0.088 J	< 5.0	2.2 J	0.25 J	0.35 J	0.15 J	160	< 0.20	3.7 J	1.3 J	1.5 J	0.66 J	0.38 J	3.1 J	< 20.0	6.7 J	230	19.0	15.0	14.0	400
	M08-02	2004 02 (Summer)	< 1.0	4.2	**170**	< 2.0	< 5.0	< 10.0	0.84 J	< 10.0	0.11 J	250	0.10 J	< 20.0	**7.9 J**	< 5.0	< 5.0	< 1.0	< 10.0	< 28.0	< 50.0	1,100	43.0	8.9	2.8	22.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**305**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	304	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	1,290	73.3	12.8	4.2	26.5
		2003 02 (Summer)	< 50.0	< 50.0	**497**	< 4.0	< 5.0	< 10.0	4.4 J	6.0 J	< 10.0	656	< 0.40 UJ	< 50.0	**21.7**	< 20.0	< 10.0	< 5.0	1.7 J	< 20.0	< 200	1,380	206	46.8	5.1 J	73.8
		2002 04 (Winter)	0.30 J	**9.9**	**350**	< 2.0	< 5.0	< 10.0	2.1 J	0.71 J	0.037 J	630 J	< 0.20	< 20.0	6.3 J	< 5.0	< 5.0	< 2.0	< 10.0	1.5 J	3.3 J	**1,800**	88.0	19.0	5.0	61.0
		2002 02 (Summer)	< 50.0	6.6	**270**	< 2.0	< 5.0	< 10.0	0.56 J	0.65 J	0.42 J	< 3.0	110	< 0.20	3.6 J	6.7 J	< 5.0	-	< 2.0	3.5 J	2.8 J	< 100	290	70.0	13.0	8.4	69.0
	M08-03	2006 01 (Spring)	< 1.0	4.0 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	0.39 J	< 5.0	< 5.0	< 5.0	-	4.3 J	-	-	-	-	-	-
		2005 02 (Summer)	0.85 J	< 5.0	**650**	< 2.0	< 5.0	< 10.0	0.44 J	< 10.0	< 3.0	910	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	7.8 J	< 100	1,000	120	130	36.0	920
		2004 04 (Winter)	0.11 J	2.4 J	**360**	< 2.0	< 5.0	0.80 J	0.40 J	0.49 J	< 3.0	880	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	1.3 J	2.4 J	3.5 J	1,200	120	97.0	27.0	620
		2004 02 (Summer)	< 1.0	2.2	**470**	< 2.0	< 5.0	1.2 J	0.46 J	< 10.0	< 1.0	980	< 0.20	< 20.0	1.1 J	< 5.0	0.95 J	< 1.0	1.1 J	< 20.0	< 50.0	1,200	140	140	38.0	760
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**302**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	910	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	954	126	98.5	33.4	553
		2003 02 (Summer)	< 50.0	< 50.0	**323**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	566	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	643	110	77.4	21.6 J	358
		2002 04 (Winter)	< 50.0	< 5.0	**310**	< 2.0	< 5.0	< 10.0	0.28 J	0.76 J	0.031 J	770 J	< 0.20	< 20.0	< 20.0 UJ	**3.6 J**	< 5.0	< 2.0	< 10.0	10.0 J	3.1 J	**1,700**	120	100 J	39.0	560
		2002 02 (Summer)	0.052 J	< 5.0	**200**	< 2.0	< 5.0	< 10.0	0.11 J	0.38 J	0.083 J	350	< 0.20	0.49 J	< 20.0	**6.4**	< 5.0	0.72 J	3.0 J	< 20.0	5.5 J	950	70.0	47.0	22.0	280
	M08-05	2006 01 (Spring)	< 1.0	3.9 J	-	< 2.0	< 5.0	< 10.0	-	1.4 J	< 3.0	-	< 0.20	-	1.5 J	< 5.0	< 5.0	< 5.0	-	**13.0 J**	-	-	-	-	-	-
		2005 02 (Summer)	0.94 J	< 5.0	54.0	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 3.0	50.0	< 0.20	4.6 J	1.3 J	< 5.0	< 5.0	< 5.0	2.7 J	**18.0 J**	**4,900 J**	12.0 J	22.0	10.0	12.0	180
		2004 04 (Winter)	0.45 J	4.8 J	100	< 2.0	0.56 J	0.93 J	0.24 J	3.1 J	0.91 J	74.0	< 0.20	3.3 J	5.2 J	< 5.0	< 5.0	< 5.0	3.1 J	**26.0**	4.9 J	100	32.0	17.0	14.0	240
		2004 02 (Summer)	0.76 J	4.6	**180**	< 2.0	0.31 J	1.0 J	0.58 J	< 10.0	0.61 J	250	< 0.20	4.5 J	4.1 J	< 5.0	< 5.0	< 1.0	1.7 J	< 39.0	< 50.0	270	63.0	30.0	17.0	310
		2003 04 (Winter)	< 5.0	4.3 J	**131**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	154	< 0.40	< 50.0	**13.8 J**	< 20.0	< 10.0	< 5.0	5.6 J	**64.7**	< 200	137	49.5	21.4	15.1	284
		2003 02 (Summer)	< 50.0	< 50.0	**146**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	67.8	< 0.40 UJ	< 50.0	5.0 J	< 20.0	< 10.0	< 5.0	4.3 J	< 20.0	< 200	< 100	56.0	20.1	23.3 J	237
		2002 04 (Winter)	< 50.0	3.7 J	69.0	< 2.0	< 5.0	< 10.0	1.7 J	0.90 J	0.67 J	380	< 0.20	< 20.0	**8.0 J**	< 5.0	< 5.0	< 2.0	< 10.0	**250 J**	< 100	**2,200**	16.0	6.4	4.0	73.0
		2002 02 (Summer)	0.26 J	5.7	**150**	< 2.0	< 5.0	< 10.0	0.42 J	1.2 J	0.079 J	230	< 0.20	2.8 J	4.4 J	**2.5 J**	**4.6 J**	0.16 J	3.9 J	< 20.0	< 100	170	40.0	39.0	22.0	430
	M08-06	2006 01 (Spring)	1.3	1.9 J	-	< 2.0	< 5.0	< 10.0	-	1.8 J	< 3.0	-	< 0.20	-	1.1 J	< 5.0	< 5.0	< 5.0	-	9.9 J	-	-	-	-	-	-
	M08-07	2006 01 (Spring)	< 1.0	1.0 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	0.17 J	-	< 0.20	-	**8.4 J**	< 5.0	< 5.0	< 5.0	-	6.0 J	-	-	-	-	-	-
		2005 02 (Summer)	0.62 J	< 5.0	65.0	< 2.0	< 5.0	< 10.0	0.081 J	< 10.0	< 3.0	45.0	< 0.20	< 20.0	5.9 J	**4.2 J**	< 5.0	< 5.0	< 10.0	10.0 J	< 100	40.0 J	11.0	11.0	5.5	21.0
		2004 04 (Winter)	0.11 J	< 5.0	98.0	< 2.0	< 5.0	0.64 J	0.10 J	1.4 J	< 3.0	86.0	< 0.20	< 20.0	5.1 J	< 5.0	< 5.0	< 5.0	1.2 J	1.9 J	3.3 J	72.0 J	17.0	15.0	7.9	27.0
		2004 02 (Summer)	< 1.0	1.3	120	< 2.0	< 5.0	0.32 J	0.15 J	< 10.0	0.073 J	130	< 0.20	< 20.0	**11.0 J**	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	26.0 J	19.0	18.0	8.2	27.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	86.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	12.1	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	16.0	17.6	5.5	43.0
		2003 02 (Summer)	< 50.0	< 50.0	95.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	136	< 0.40 UJ	< 50.0	**11.0 J**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	14.2	13.4	7.8 J	52.6
		2002 04 (Winter)	< 50.0	< 5.0	70.0	< 2.0	< 5.0	< 10.0	0.096 J	1.8 J	0.081 J	2.3 J	< 0.20	< 20.0	5.7 J	< 5.0	< 5.0	< 2.0	< 10.0	5.5 J	39.0 J	< 160	8.5	9.1	4.4	48.0
		2002 02 (Summer)	0.12 J	< 5.0	99.0	< 2.0	0.42 J	< 10.0	0.046 J	1.4 J	< 3.0	26.0	< 0.20	< 20.0	**8.8 J**	< 5.0	< 5.0	< 2.0	1.1 J	2.1 J	6.8 J	35.0 J	14.0	11.0	5.3	32.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

ITSI Innovative Technical Solutions, Inc.

Table 9-5

Groundwater Sample Analytical Results at IR Site 8: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																		Common Rock-forming Elements						
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
			BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
	Well Number	Event	AWQC:	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M08-08	2006 01 (Spring)		< 1.0	1.5 J	-	< 2.0	< 5.0	1.5 J	-	3.7 J	0.25 J	-	< 0.20	-	**23.0**	< 5.0	< 5.0	< 5.0	-	8.3 J	-	-	-	-	-	-
		2005 02 (Summer)		0.67 J	3.2 J	**160**	0.097 J	0.21 J	1.9 J	0.90 J	1.7 J	< 3.0	430	< 0.20	1.0 J	5.7 J	0.42 J	0.11 J	1.8 J	1.1 J	5.5 J	5.1 J	**1,800**	66.0	5.5 J	2.4	13.0
		2004 04 (Winter)		0.23 J	5.4	**170**	< 2.0	< 5.0	1.5 J	0.59 J	1.3 J	< 3.0	440	< 0.20	< 20.0	5.0 J	< 5.0	< 5.0	< 5.0	1.8 J	1.2 J	6.8 J	740	74.0	8.3	2.4	16.0
		2004 02 (Summer)		0.24 J	6.6	**130**	< 2.0	< 5.0	< 10.0	0.97 J	< 10.0	< 1.0	590	**0.12 J**	< 20.0	**12.0 J**	< 1.0	< 5.0	< 1.0	< 10.0	< 20.0	7.1 J	1,500	78.0	11.0	3.1	21.0
SWBZ	D08-01	2006 01 (Spring)		0.27 J	1.9 J	-	0.56 J	1.1 J	< 10.0	-	< 10.0	0.15 J	-	< 0.20	-	**26.0**	**3.5 J**	0.13 J	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)		0.71 J	2.5 J	84.0	0.065 J	< 5.0	1.5 J	**17.0**	6.7 J	< 3.0	**1,900 J**	**0.11 J**	1.7 J	**33.0**	**27.0**	0.054 J	0.22 J	1.3 J	**92.0**	7.0 J	**7,200**	75.0 J	24.0 J	4.9 J	30.0 J
		2004 04 (Winter)		0.22 J	**8.2**	76.0	0.16 J	< 5.0	0.84 J	**16.0**	**9.0 J**	0.39 J	**13,000**	< 0.20	< 20.0	**36.0**	**3.6 J**	< 5.0	< 5.0	1.0 J	**26.0**	< 100	**2,400**	**1,100**	1,500	32.0	6,000
		2004 02 (Summer)		< 1.0	< 1.0	71.0	< 2.0	< 5.0	< 10.0	**17.0**	< 10.0	0.76 J	**15,000**	< 0.20	< 20.0	**36.0**	**5.0**	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	41.0 J	**1,300**	1,800	39.0	7,300
		2003 04 (Winter)		< 25.0 UJ	< 50.0	62.1 J	< 4.0	< 5.0	< 10.0	**13.6**	< 10.0	< 10.0 UJ	**12,100**	< 0.40	**30.6 J**	**30.9**	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	162	**1,400**	1,980	49.1	8,140
		2003 02 (Summer)		< 50.0	**8.5 J**	69.8 J	< 4.0	< 5.0	< 10.0	**18.5**	< 10.0	< 10.0	**13,800**	< 0.40 UJ	< 50.0	**38.2**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	354	**1,290**	1,840	112 J	6,410
		2002 04 (Winter)		< 50.0	< 5.0	67.0	< 2.0	< 5.0	2.5 J	**19.0**	**8.8 J**	0.043 J	**11,000 J**	< 0.20	< 20.0	**53.0**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**6,100**	**1,200**	1,700 J	31.0	6,800
		2002 02 (Summer)		0.14 J	< 5.0	64.0	< 2.0	< 5.0	**14.0**	**16.0**	< 10.0	< 3.0	**11,000**	< 0.20	< 20.0	**20.0 J**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	3.4 J	100 J	**1,100**	1,600	33.0	6,400

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Innovative Technical Solutions, Inc.

Table 9-6

Groundwater Sample Analytical Results at IR Site 8: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																					
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**0.20**	**0.10**	**0.10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**2.0**	**2.0**	**2.0**	**0.010**	**0.010**	**30.0**	**3.0**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**1.3**	**NA**	**NA**	**NA**	**0.16**	**0.0040**	**0.0040**	**NA**	**NA**	**0.0010**	**0.0019**	**0.0087**	**0.0087**	**NA**	**0.0023**	**NA**	**NA**	**0.0036**	**0.0036**	**NA**	**0.0002**
FWBZ	M08-01	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.010 J**	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.10	< 0.10	< 0.10	< 0.10	< 0.060	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.060	< 0.060	< 0.60	< 1.1
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 4.7
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 5.0
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 0.95
	M08-02	2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 4.7
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10 UJ	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.050	< 0.50	< 5.0
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	**0.0092 J**	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94
		2002 02 (Summer)	-	-	-	-	-	-	-	**0.014 J**	**0.016 J**	**0.20 J**	-	-	-	< 0.090 J	-	< 0.090	-	-	-	-	-
	M08-03	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	**0.020 J**	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.0040 J**	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.050	< 0.050	< 0.50 UJ	< 5.0 UJ
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 4.7
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	**0.0094 J**	< 0.040	< 0.040	**0.0097 J**	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 0.94
	M08-04	2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 9-6

Groundwater Sample Analytical Results at IR Site 8: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																				
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	M08-04	2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
	M08-05	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50 UJ	< 0.90
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	**0.017 J**	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49 UJ	< 0.98 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 0.94
	M08-06	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	M08-07	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50 UJ	< 4.9
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.049	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 0.98
	M08-08	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
SWBZ	D08-01	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	**0.010 J**	< 0.050	< 0.50 UJ	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050 J	< 0.050 J	< 0.050	< 0.050	< 0.050 J	< 0.050 J	< 0.050 J	< 0.10 J	< 0.10 J	< 0.10	< 0.10 J	< 0.050 J	< 0.10 J	< 0.10	< 0.10 J	< 0.10	< 0.10 J	< 0.050	< 0.050 J	< 0.50	< 1.0

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 9-6

Groundwater Sample Analytical Results at IR Site 8: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																					
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**0.20**	**0.10**	**0.10**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**2.0**	**2.0**	**2.0**	**0.010**	**0.010**	**30.0**	**3.0**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**1.3**	**NA**	**NA**	**NA**	**0.16**	**0.0040**	**0.0040**	**NA**	**NA**	**0.0010**	**0.0019**	**0.0087**	**0.0087**	**NA**	**0.0023**	**NA**	**NA**	**0.0036**	**0.0036**	**NA**	**0.0002**
SWBZ	D08-01	2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 4.8
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 9-7
Groundwater Sampling Field Parameters at IR Site 8
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M08-01	05/04/06	6.89	1.37	-149
		09/12/05	7.26	0.19	-125
		03/09/05	7.16	1.49	-3
		11/24/04	7.21	0.54	227
		06/25/04	7.18	0.87	141
		03/05/04	7.27	1.32	153
		12/09/03	7.36	0.59	253
		09/23/03	7.40	0.27	56
		06/30/03	7.55	0.31	-272
		04/10/03	7.50	3.00	163
		12/23/02	7.30	0.22	62
		09/09/02	7.57	0.80	-147.9
		06/24/02	7.59	8.30	-70
First	M08-03	05/04/06	6.49	0.51	-229
		09/12/05	6.63	2.75	-245
		03/09/05	6.92	0.00	-242
		11/24/04	6.51	0.48	-22
		06/25/04	6.66	0.16	-281
		03/05/04	6.67	0.21	172
		12/11/03	6.70	0.13	-195.5
		09/23/03	6.78	0.18	-105
		06/30/03	6.89	0.10	-331
		04/10/03	6.77	0.15	1.0
		12/23/02	6.89	0.14	-121
		09/10/02	6.91	0.70	-153.9
		06/25/02	6.81	0.90	-85
First	M08-04	09/12/05	6.77	0.35	14
		03/08/05	***5.99***	4.81	28
		11/24/04	6.71	0.46	174
		06/25/04	6.81	0.40	120
		03/05/04	6.78	2.81	156
		12/10/03	6.94	0.24	-83
		09/22/03	6.85	0.33	139
First	M08-05	05/03/06	7.85	3.78	-14
		09/12/05	7.35	0.27	58
		03/09/05	6.83	2.13	-3
		11/24/04	7.13	0.82	191
		06/25/04	7.13	0.24	46
		03/05/04	7.37	1.49	287
		12/10/03	7.24	0.91	-6.7
		09/23/03	7.38	0.15	-112
		06/30/03	7.65	0.54	-278
		04/10/03	7.35	0.81	93
		12/24/02	6.17	4.43	-29
		09/10/02	8.21	***97.50***	-94.8
		06/25/02	7.42	4.50	154
First	M08-07	05/04/06	6.53	0.12	6.0

Table 9-7
Groundwater Sampling Field Parameters at IR Site 8
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M08-07	09/12/05	6.13	1.17	31
		03/09/05	6.44	1.70	90
		11/24/04	6.30	0.99	244
		06/25/04	6.12	0.20	145
		03/05/04	6.31	1.29	159
		12/11/03	6.06	3.54	50.3
		09/23/03	6.05	0.19	1.39
		06/30/03	6.37	0.29	-297
		04/10/03	6.10	***15.20***	194
		12/23/02	6.13	4.07	133
		09/10/02	6.08	8.70	245.1
		06/26/02	6.03	0.19	178.1
First	M08-08	05/04/06	6.18	0.1	26
		09/08/05	6.33	0.02	-14
		03/09/05	6.70	2.81	19
		11/24/04	6.40	0.52	168
		06/28/04	6.60	0.23	-39
Second	D08-01	05/04/06	6.53	0.12	-132
		09/09/05	6.75	0.00	-39
		03/09/05	6.86	2.93	-120
		11/24/04	6.54	0.38	102
		06/25/04	6.58	0.29	-245
		03/05/04	6.45	0.22	172
		12/08/03	6.54	0.29	197
		09/22/03	6.57	0.10	16
		06/30/03	6.83	0.17	-280
		04/10/03	6.70	2.00	155
		12/23/02	7.06	0.05	-144
		09/10/02	6.77	1.20	-32.2
		07/15/02	7.18	0.77	0.0

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 9-8
Groundwater Sample Analytical Results at IR Site 8: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M08-01	2006 01 (Spring)	< 0.0050	< 0.0050	**2.6**	**0.16**	< 0.050	**320**	**10.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**1.7**	**0.090**	< 0.050	**180**	**23.0**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.030**	**0.090**	< 0.050	**86.0**	**30.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.014**	**0.14**	< 0.050	**60.0**	**36.0**	**290**	**290**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.012**	< 1.0	< 1.0	**109**	**52.3**	**254**	**254**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.15**	**0.16**	< 0.10	**266**	**22.7**	**300**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.092**	**0.030 J**	< 0.050	**180**	**65.0**	**320**	**320**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**2.2**	< 0.050	< 0.050	**440**	**40.0**	**360**	**360**	< 1.0	< 1.0	< 0.040
	M08-02	2004 02 (Summer)	< 0.010	< 0.010	**0.15**	< 0.050	< 0.050	**20.0**	**14.0**	**150**	**150**	< 1.0	< 1.0	**0.080**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.10**	< 1.0	< 1.0	**8.1**	**9.3**	**287**	**287**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.064**	**0.67**	< 0.10	**229**	**148**	**215**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.98**	< 0.050	< 0.050	**38.0**	**19.0**	**360**	**360**	< 1.0	< 1.0	**0.20**
		2002 02 (Summer)	< 0.010	< 0.010	**0.80**	< 0.050	< 0.050	**40.0**	**12.0**	**340**	**340**	< 1.0	< 1.0	**0.040 J**
	M08-03	2006 01 (Spring)	< 0.025	< 0.025	**9.4**	**0.030 J**	< 0.050	**180**	**12.0**	**270**	**270**	< 1.0	< 1.0	**0.44**
		2005 02 (Summer)	< 0.0050	< 0.0050	**11.0**	< 0.10	< 0.15	**1,500**	**7.5**	**600**	**600**	< 1.0	< 1.0	**1.7**
		2004 04 (Winter)	< 0.0050	< 0.0050	**11.0**	< 0.050	< 0.10	**1,300**	**7.0**	**580**	**580**	< 1.0	< 1.0	**1.1**
		2004 02 (Summer)	< 0.010	< 0.010	**13.0**	< 0.25	< 0.25	**1,800**	**7.0**	**720**	**720**	< 1.0	< 1.0	**0.65**
		2003 04 (Winter)	< 0.0030	< 0.0030	**2.6**	-	-	**1,160**	**10.7**	**566**	**566**	< 5.0	-	**9.5**
		2003 02 (Summer)	< 0.0030	< 0.0030	**4.0**	< 0.20	< 0.20	**757**	**11.0**	**395**	-	-	-	**2.8**
		2002 04 (Winter)	< 0.010	< 0.010	**16.0**	< 0.10	< 0.10	**1,200**	< 1.0	**540**	**540**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**8.2 J**	< 0.050	< 0.050	**260**	**23.0**	**340**	**340**	< 1.0	< 1.0	< 0.040
	M08-04	2005 02 (Summer)	< 0.0050	< 0.0050	**1.9**	**0.17**	< 0.050	**230**	**28.0**	**250**	**250**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**1.5**	**1.2**	< 0.050	**150**	**31.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.58**	**0.55**	< 0.050	**200**	**39.0**	**170**	**170**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**1.6**	**0.053 J**	< 0.10	**137**	**4.5**	**175**	**175**	< 5.0	-	< 1.0
	M08-05	2006 01 (Spring)	< 0.0050	< 0.0050	**0.072**	**0.39**	< 0.050	**60.0**	**27.0**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.074**	**0.75**	< 0.050	**96.0**	**61.0**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.019**	**1.5**	< 0.050	**260**	**37.0**	**540**	**540**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.51**	**0.32**	< 0.050	**450**	**40.0**	**340**	**340**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.052**	**1.1**	< 0.10	**303**	**37.1**	**374**	**374**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.055**	**0.90**	< 0.10	**256**	**34.5**	**310**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.038**	**0.52 J**	< 0.050	**39.0**	**19.0**	**160**	**160**	< 1.0	< 1.0	**0.12**
		2002 02 (Summer)	< 0.010	< 0.010	**0.039 J**	**1.7**	< 0.050	**270**	**47.0**	**310**	**310**	< 1.0	< 1.0	< 0.040
	M08-06	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0040 J**	**0.16**	< 0.050	**23.0**	**10.0**	**140**	**140**	< 1.0	< 1.0	< 0.040
	M08-07	2006 01 (Spring)	< 0.0050	< 0.0050	**0.13**	**0.14**	< 0.050	**42.0**	**26.0**	**100**	**100**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.022**	**0.22**	< 0.050	**23.0**	**20.0**	**88.0**	**88.0**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.032**	**0.11**	< 0.050	**25.0**	**23.0**	**110**	**110**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.15**	**0.11**	< 0.050	**32.0**	**26.0**	**290**	**290**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 9-8
Groundwater Sample Analytical Results at IR Site 8: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Dissolved Gases			Anions				Alkalinity				Sulfide
				Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
			Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
			BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M08-07	2003 04 (Winter)		< 0.0030	< 0.0030	**0.0089**	**0.58**	< 0.10	**64.4**	**20.7**	**29.0**	**29.0**	< 5.0	-	< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.55**	< 0.10	< 0.10	**62.5**	**20.6**	**87.5**	-	-	-	< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	**0.038**	**0.38**	< 0.050	**46.0**	**20.0**	**110**	**110**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	**0.011**	**1.2**	< 0.050	**45.0**	**32.0**	**79.0**	**79.0**	< 1.0	< 1.0	< 0.040
	M08-08	2006 01 (Spring)		< 0.0050	< 0.0050	**0.037**	**0.0090 J**	< 0.050	**14.0**	**27.0**	**170**	**170**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)		< 0.0050	< 0.0050	**0.0050**	**0.040 J**	< 0.050	**11.0**	**22.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**0.077**	**0.010 J**	< 0.050	**12.0**	**14.0**	**170**	**170**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	**0.18**	< 0.050	< 0.050	**11.0**	**15.0**	**340**	**340**	< 1.0	< 1.0	< 0.040
SWBZ	D08-01	2006 01 (Spring)		< 0.0050	< 0.0050	**0.0060**	< 1.0	< 2.5	**15,000**	**2,200**	**610**	**610**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)		< 0.0050	< 0.0050	**0.0040 J**	< 1.0	< 2.5	**14,000**	**2,100**	**640**	**640**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**0.0040 J**	< 1.3	< 2.5	**16,000**	**2,200**	**610**	**610**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	< 0.010	< 1.3	< 2.5	**16,000**	**2,100**	**640**	**640**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**0.0025 J**	**1.3**	< 50.0	**11,200**	**2,340**	**615**	**615**	< 5.0	-	< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.0021 J**	< 1.0	< 1.0	**16,100**	**1,900**	**593**	-	-	-	< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	< 0.010	< 1.3	< 1.3	**15,000**	**2,300**	**580**	**580**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**16,000**	**2,200**	**620**	**620**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 9-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 8

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 8 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	5	7	1.1 J	M08-01	12 Sep 2005	12.0 J	M08-03	2004 01 (Spring)
Benzene (UG/L)	2	7	16.0	M08-01	04 May 2006	18.0 J	M08-05	2002 03 (Fall)
TPH-Diesel (UG/L)	1	7	230	M08-03	04 May 2006	150 J	M08-03	2004 04 (Winter)
TPH-Jet Fuel (UG/L)	2	7	210	M08-01	04 May 2006	210 J	M08-05	2002 03 (Fall)
Toluene (UG/L)	1	7	0.090 J	M08-01	04 May 2006	0.40 J	M08-01	2002 02 (Summer)
Ethylbenzene (UG/L)	3	7	5.2	M08-01	04 May 2006	8.3 J	M08-05	2002 03 (Fall)
TPH-Motor Oil (UG/L)	1	7	84.0 J	M08-01	04 May 2006	230	M08-07	2003 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	1	7	0.70	M08-01	04 May 2006	2.3	M08-01	2003 04 (Winter)
M,P-xylenes (UG/L)	3	7	1.3	M08-01	04 May 2006	1.6 J	M08-05	2002 03 (Fall)
TPH-Gasoline (UG/L)	1	7	35.0 J	M08-03	09 Sep 2005	78.0	M08-03	2003 03 (Fall)
O-xylene (UG/L)	3	7	1.2	M08-01	04 May 2006	1.0 J	M08-05	2002 03 (Fall)
1,1-Dichloroethane (UG/L)	1	7	0.070 J	M08-01	04 May 2006	0.30 J	M08-03	2002 04 (Winter)
Naphthalene (UG/L)	2	7	100	M08-01	04 May 2006	120 J	M08-05	2002 03 (Fall)
Carbon Disulfide (UG/L)	3	7	0.10 J	M08-03	12 Sep 2005	7.3 J	M08-03	2002 03 (Fall)
Chloroform (UG/L)	2	7	0.060 J	M08-01	04 May 2006	0.30 J	M08-07	2002 03 (Fall)
Isopropylbenzene (UG/L)	2	7	0.80	M08-03	12 Sep 2005	0.80	M08-03	2002 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	1	7	0.50 J	M08-01	04 May 2006	7.2 J	M08-02	2002 02 (Summer)
n-Butylbenzene (UG/L)	1	7	5.4	M08-03	12 Sep 2005	--	NA	NA
n-Propylbenzene (UG/L)	1	7	0.10 J	M08-03	12 Sep 2005	--	NA	NA
Tert-butyl alcohol (UG/L)	1	7	1.8 J	M08-04	12 Sep 2005	--	NA	NA
1,2,4-Trimethylbenzene (UG/L)	2	7	0.40 J	M08-01	04 May 2006	0.50 J	M08-05	2002 03 (Fall)
1,3,5-Trimethylbenzene (UG/L)	2	7	0.10 J	M08-03	12 Sep 2005	0.10 J	M08-05	2002 03 (Fall)

Result exceeds Maximum Contaminant Level (MCL)

Table 9-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 8

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 8 (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
TPH-Motor Oil (UG/L)	1	1	200 J	D08-01	04 May 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 9-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 8

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 8 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	6	6	1.3	M08-06	03 May 2006	0.76 J	M08-05	2004 02 (Summer)
Arsenic (UG/L)	6	6	13.0	M08-01	12 Sep 2005	9.9	M08-02	2002 04 (Winter)
Barium (UG/L)	5	5	650	M08-03	12 Sep 2005	497	M08-02	2003 02 (Summer)
Beryllium (UG/L)	1	6	0.097 J	M08-08	08 Sep 2005	0.088 J	M08-01	2002 02 (Summer)
Cadmium (UG/L)	1	6	0.21 J	M08-08	08 Sep 2005	0.56 J	M08-05	2004 04 (Winter)
Chromium (UG/L)	2	6	2.0 J	M08-01	12 Sep 2005	2.2 J	M08-01	2002 02 (Summer)
Cobalt (UG/L)	5	5	0.90 J	M08-08	08 Sep 2005	4.4 J	M08-02	2003 02 (Summer)
Copper (UG/L)	4	6	3.7 J	M08-08	04 May 2006	6.0 J	M08-02	2003 02 (Summer)
Lead (UG/L)	3	6	2.0 J	M08-01	12 Sep 2005	0.91 J	M08-05	2004 04 (Winter)
Manganese (UG/L)	5	5	910	M08-03	12 Sep 2005	980	M08-03	2004 02 (Summer)
Molybdenum (UG/L)	3	5	4.6 J	M08-05	12 Sep 2005	4.5 J	M08-05	2004 02 (Summer)
Nickel (UG/L)	6	6	23.0	M08-08	04 May 2006	21.7	M08-02	2003 02 (Summer)
Selenium (UG/L)	2	6	4.2 J	M08-07	12 Sep 2005	6.4	M08-03	2002 02 (Summer)
Silver (UG/L)	1	6	0.11 J	M08-08	08 Sep 2005	4.6 J	M08-05	2002 02 (Summer)
Thallium (UG/L)	1	6	1.8 J	M08-08	08 Sep 2005	0.72 J	M08-03	2002 02 (Summer)
Vanadium (UG/L)	3	5	3.5 J	M08-01	12 Sep 2005	5.6 J	M08-05	2003 04 (Winter)
Zinc (UG/L)	6	6	41.0	M08-01	12 Sep 2005	250 J	M08-05	2002 04 (Winter)
Aluminum (UG/L)	3	5	4900 J	M08-05	12 Sep 2005	694	M08-01	2003 04 (Winter)
Iron (UG/L)	5	5	1800	M08-08	08 Sep 2005	2200	M08-05	2002 04 (Winter)
Calcium (MG/L)	5	5	120	M08-03	12 Sep 2005	206	M08-02	2003 02 (Summer)
Magnesium (MG/L)	5	5	130	M08-03	12 Sep 2005	140	M08-03	2004 02 (Summer)
Potassium (MG/L)	5	5	36.0	M08-03	12 Sep 2005	39.0	M08-01	2004 02 (Summer)
Sodium (MG/L)	5	5	920	M08-03	12 Sep 2005	6900	M08-01	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 9-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 8

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 8 (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	1	1	0.71 J	D08-01	09 Sep 2005	0.22 J	D08-01	2004 04 (Winter)
Arsenic (UG/L)	1	1	2.5 J	D08-01	09 Sep 2005	8.5 J	D08-01	2003 02 (Summer)
Barium (UG/L)	1	1	84.0	D08-01	09 Sep 2005	76.0	D08-01	2004 04 (Winter)
Beryllium (UG/L)	1	1	0.56 J	D08-01	04 May 2006	0.16 J	D08-01	2004 04 (Winter)
Cadmium (UG/L)	1	1	1.1 J	D08-01	04 May 2006	--	NA	NA
Chromium (UG/L)	1	1	1.5 J	D08-01	09 Sep 2005	14.0	D08-01	2002 02 (Summer)
Cobalt (UG/L)	1	1	17.0	D08-01	09 Sep 2005	19.0	D08-01	2002 04 (Winter)
Copper (UG/L)	1	1	6.7 J	D08-01	09 Sep 2005	9.0 J	D08-01	2004 04 (Winter)
Lead (UG/L)	1	1	0.15 J	D08-01	04 May 2006	0.76 J	D08-01	2004 02 (Summer)
Manganese (UG/L)	1	1	1900 J	D08-01	09 Sep 2005	15000	D08-01	2004 02 (Summer)
Mercury (UG/L)	1	1	0.11 J	D08-01	09 Sep 2005	--	NA	NA
Molybdenum (UG/L)	1	1	1.7 J	D08-01	09 Sep 2005	30.6 J	D08-01	2003 04 (Winter)
Nickel (UG/L)	1	1	33.0	D08-01	09 Sep 2005	53.0	D08-01	2002 04 (Winter)
Selenium (UG/L)	1	1	27.0	D08-01	09 Sep 2005	5.0	D08-01	2004 02 (Summer)
Silver (UG/L)	1	1	0.13 J	D08-01	04 May 2006	--	NA	NA
Thallium (UG/L)	1	1	0.22 J	D08-01	09 Sep 2005	--	NA	NA
Vanadium (UG/L)	1	1	1.3 J	D08-01	09 Sep 2005	1.0 J	D08-01	2004 04 (Winter)
Zinc (UG/L)	1	1	92.0	D08-01	09 Sep 2005	26.0	D08-01	2004 04 (Winter)
Aluminum (UG/L)	1	1	7.0 J	D08-01	09 Sep 2005	3.4 J	D08-01	2002 02 (Summer)
Iron (UG/L)	1	1	7200	D08-01	09 Sep 2005	6100	D08-01	2002 04 (Winter)
Calcium (MG/L)	1	1	75.0 J	D08-01	09 Sep 2005	1400	D08-01	2003 04 (Winter)
Magnesium (MG/L)	1	1	24.0 J	D08-01	09 Sep 2005	1980	D08-01	2003 04 (Winter)
Potassium (MG/L)	1	1	4.9 J	D08-01	09 Sep 2005	112 J	D08-01	2003 02 (Summer)
Sodium (MG/L)	1	1	30.0 J	D08-01	09 Sep 2005	8140	D08-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 9-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 8

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 8 (First Water-Bearing Zone)								
Organochlorine Pesticides								
Endrin aldehyde (UG/L)	1	7	0.020 J	M08-03	12 Sep 2005	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 9-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 8

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 8 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	600	M08-03	12 Sep 2005	720	M08-03	2004 02 (Summer)
Sulfide (MG/L)	1	7	1.7	M08-03	12 Sep 2005	9.5	M08-03	2003 04 (Winter)
Alkalinity, bicarbonate (MG/L)	7	7	600	M08-03	12 Sep 2005	720	M08-03	2004 02 (Summer)
Methane (MG/L)	7	7	11.0	M08-03	12 Sep 2005	16.0	M08-03	2002 04 (Winter)
Nitrate (MG/L)	7	7	0.75	M08-05	12 Sep 2005	1.7	M08-05	2002 02 (Summer)
Chloride (MG/L)	7	7	1500	M08-03	12 Sep 2005	1800	M08-03	2004 02 (Summer)
Sulfate (as SO4) (MG/L)	7	7	61.0	M08-05	12 Sep 2005	148	M08-02	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

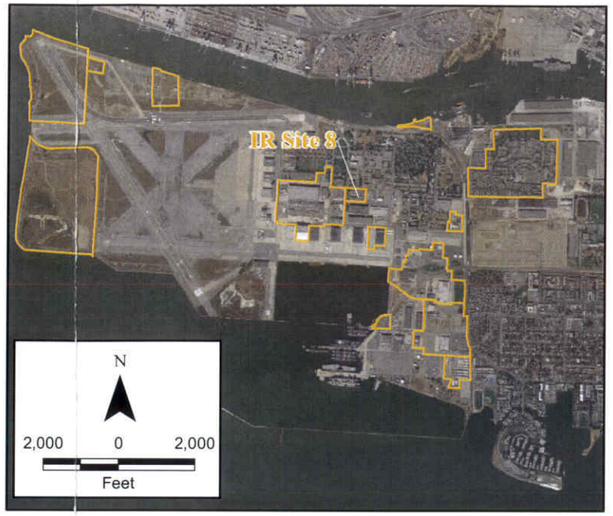
Table 9-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 8

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 8 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	1	1	640	D08-01	09 Sep 2005	640	D08-01	2004 02 (Summer)
Alkalinity, bicarbonate (MG/L)	1	1	640	D08-01	09 Sep 2005	640	D08-01	2004 02 (Summer)
Methane (MG/L)	1	1	0.0060	D08-01	04 May 2006	0.0040 J	D08-01	2004 04 (Winter)
Chloride (MG/L)	1	1	15000	D08-01	04 May 2006	16100	D08-01	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	1	1	2200	D08-01	04 May 2006	2340	D08-01	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

100 0 100

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004 National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Site 8\Annual 8 Location Map_NAD83.mxd

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FIGURE 9-1
IR SITE 8
SITE AND WELL LOCATION MAP

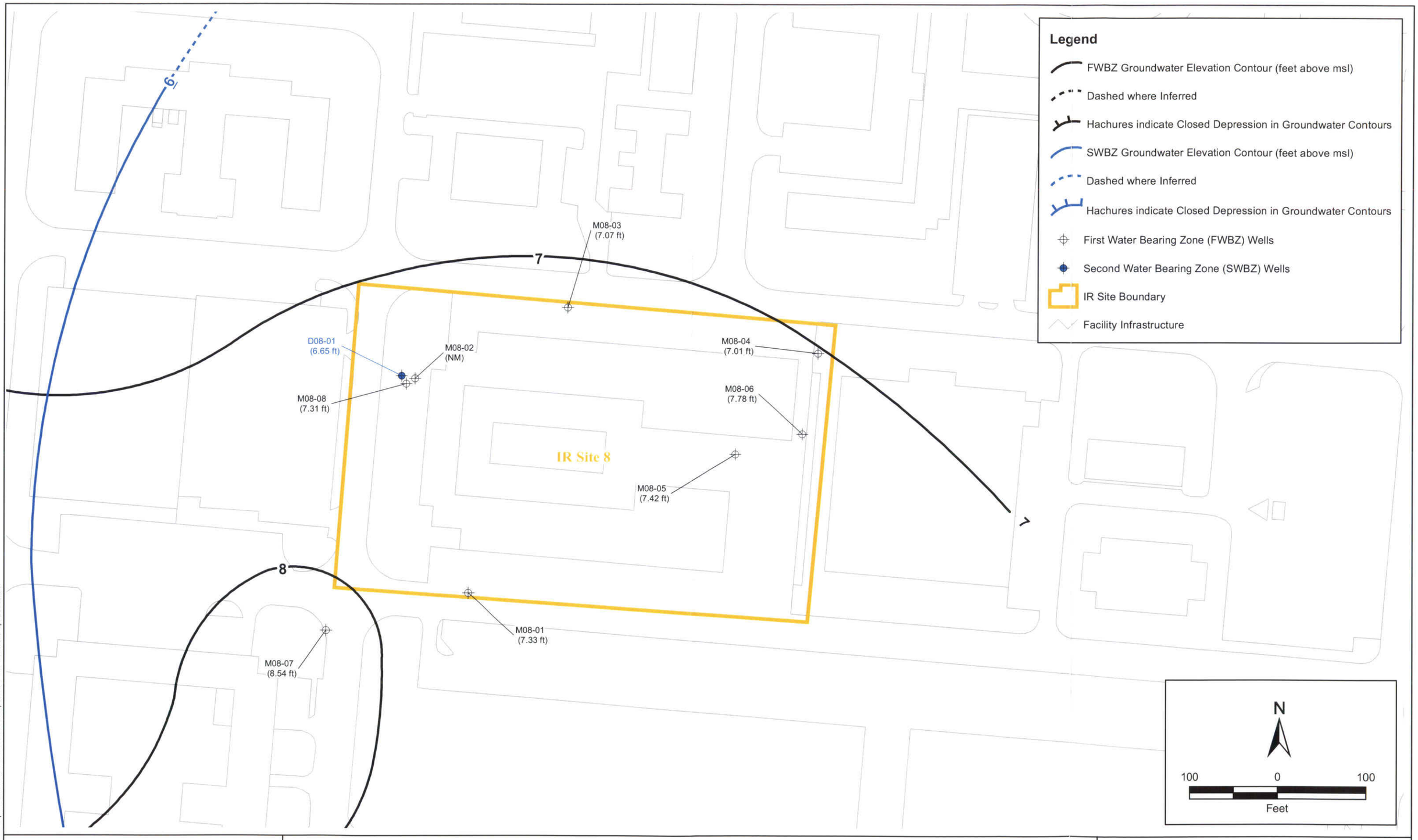

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FIGURE 9-2
IR SITE 8
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

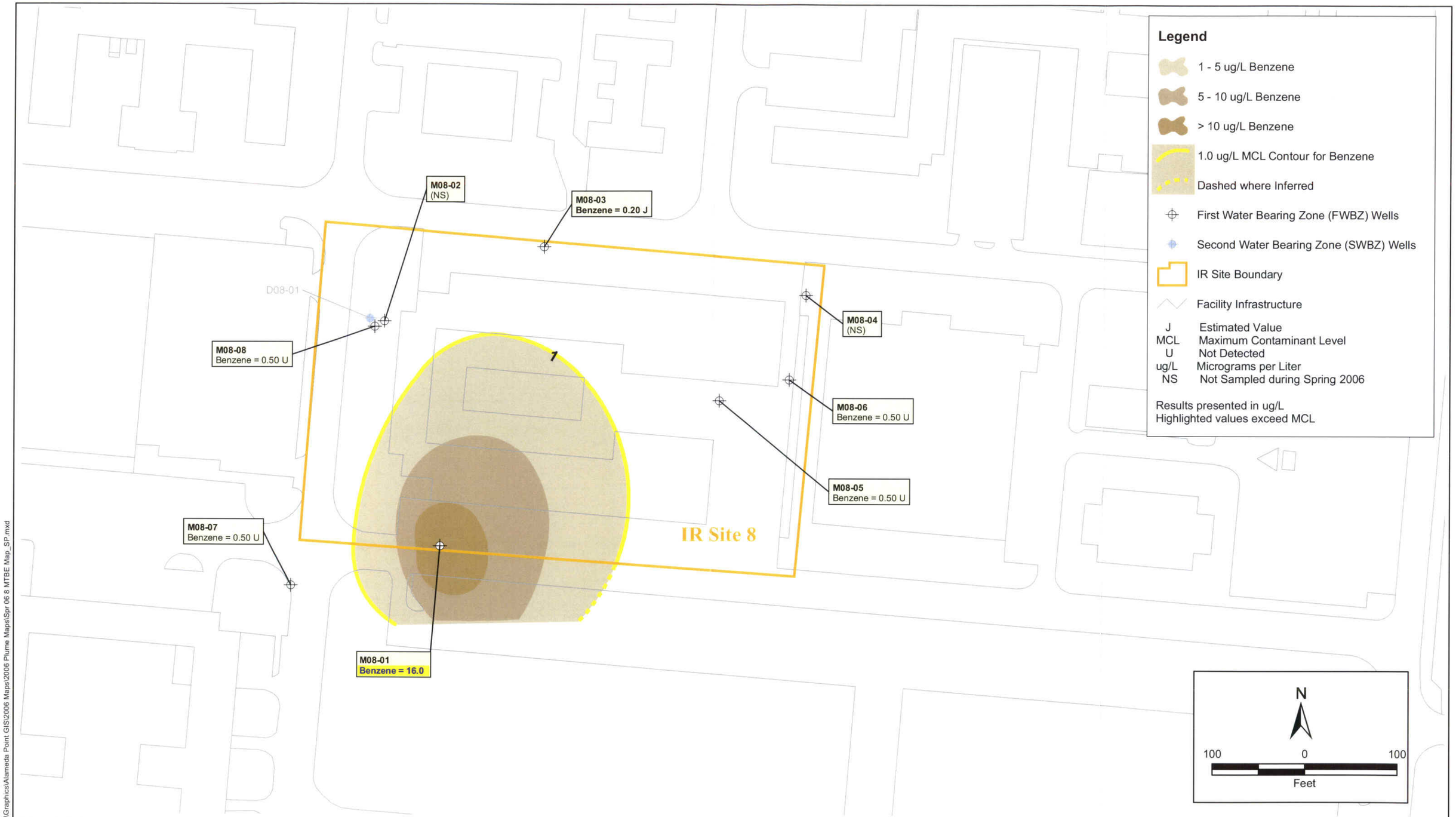

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FIGURE 9-3
IR SITE 8
GROUNDWATER DISTRIBUTION OF
BENZENE CONCENTRATIONS IN FWBZ WELLS
SPRING 2006

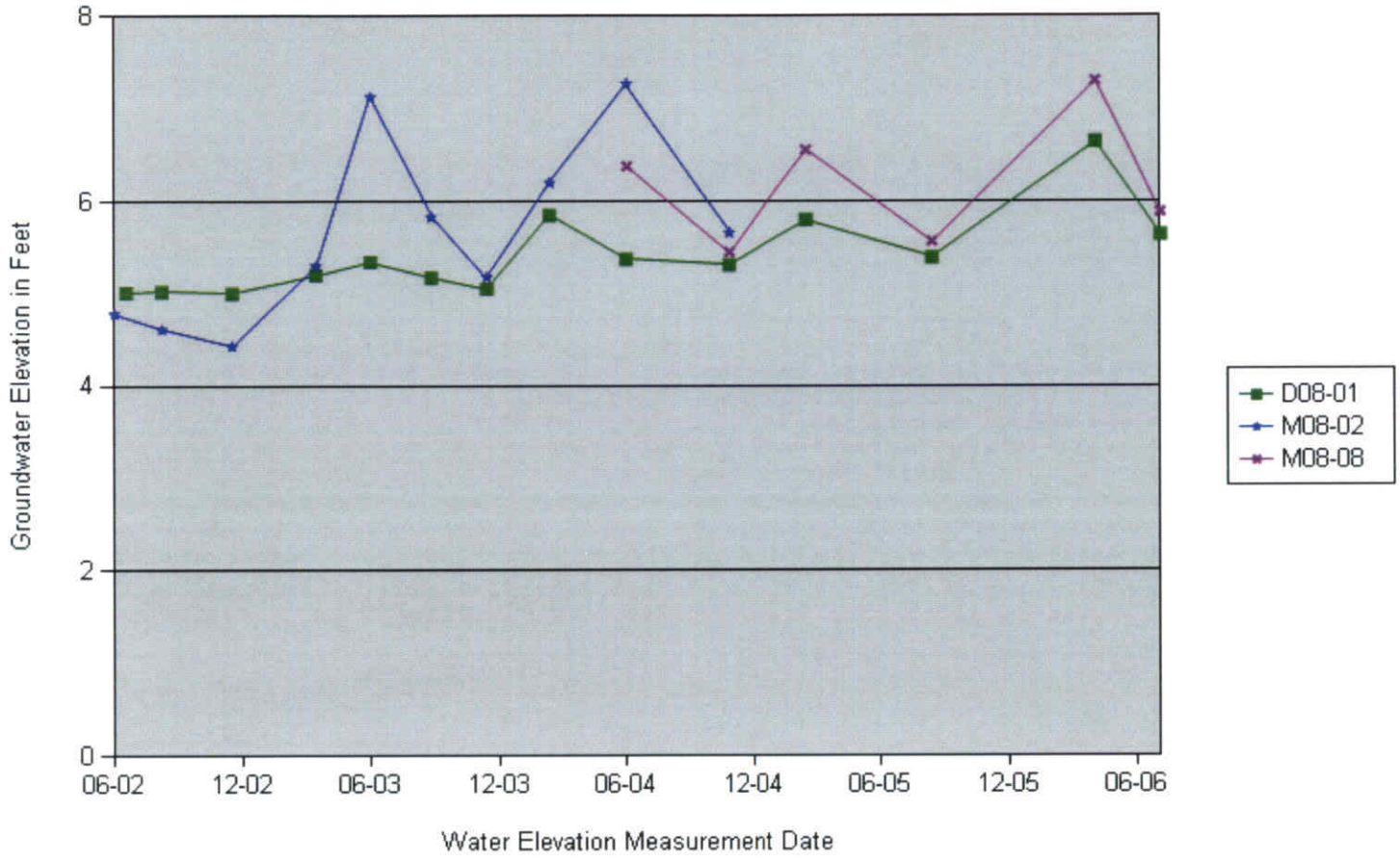

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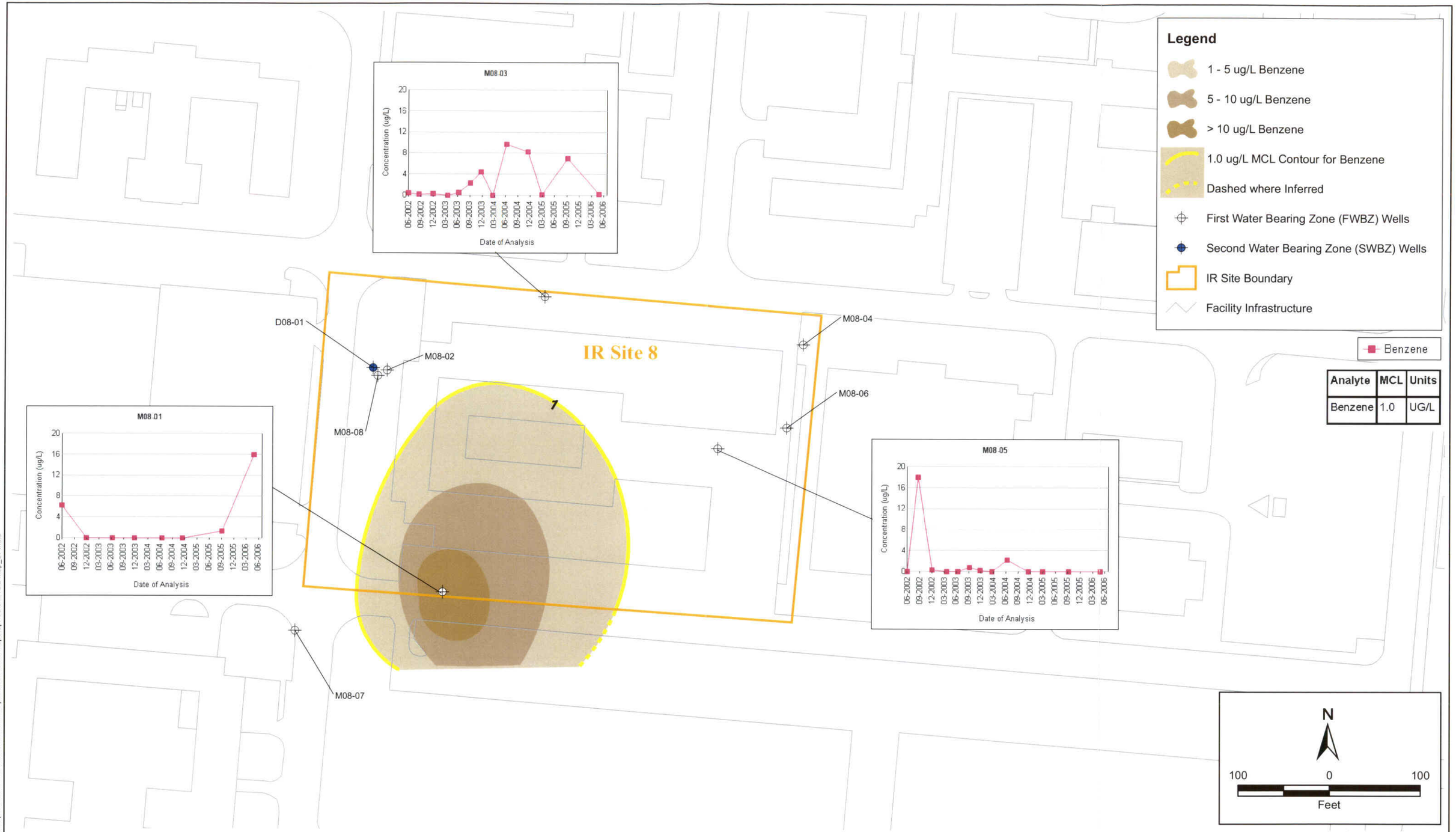
FIGURE 9-4
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 8:
FWBZ WELLS M08-02 AND SWBZ WELL D08-01
SUMMER 2002 THROUGH SPRING 2006



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 8 MTBE Map_SP.mxd

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FIGURE 9-5
IR SITE 8
GROUNDWATER CONCENTRATIONS OF BENZENE
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

10.0 INSTALLATION RESTORATION SITE 9 GROUP

IR Site 9 Group is located in the southeastern section of Alameda Point, east of Seaplane Lagoon and extends eastward to the Alameda Point boundary (Figure 1-2). The group includes IR Sites 9, 13, 19, 22, and 23; these sites are related to IR Site 9 and to each other mostly by their proximity to one another. These sites can be described briefly as follows:

- IR Site 9, Building 410 corrosion control facility
- IR Site 13, former (historical) oil refinery
- IR Site 19, Yard D-13, hazardous waste storage yard
- IR Site 22, Building 547, Former Service Station
- IR Site 23, Building 530, Missile Rework Operations

Based on background site information drawn from the Draft RI Report for OU-2 (TtEMI, 1999b), IR Site 9 includes Building 410, peripheral Buildings 351 and 588, and adjacent open space. Building 410 was used for aircraft paint stripping operations between 1958 and 1990. Building 410 was used by a contractor from 1990 to 1996 for stockpiling soil from drilling activities. Building 351 was used to support the Building 410 corrosion control facility until 1990 and is currently abandoned. Building 588, an industrial wastewater treatment plant, was located adjacent to the northeastern edge of Building 410. Building 588 housed treated wastewater generated during paint stripping at Building 410. Two oil/water separators are associated with a wash rack area along the southern edge of Building 410. The COPCs at IR Site 9 are chlorinated VOCs and benzene.

IR Site 13 is the site of a former oil refinery (circa 1886-1900). Petroleum related compounds have been detected at the site (TtEMI, 1999b). IR Site 19 contains Yard D-13, a former permitted Resource Conservation and Recovery Act (RCRA) hazardous waste storage unit that has not been used for hazardous waste storage since 1996. The site is currently used for the storage of emergency response equipment. IR Site 22, a former retail petroleum station, was designated as an IR site based on concerns about TPH and benzene in groundwater. IR Site 23 was originally designated as an IR site due to concerns about chlorinated solvents at Building 530; however, current concerns revolve around petroleum-related activities at the adjacent

degassing area west of Building 530. An ongoing TPH investigation program is addressing the nature and extent of the contaminants at IR Site 23.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 9 Group included sampling and analysis of 27 groundwater monitoring wells (22 FWBZ wells and five SWBZ wells). Another 15 groundwater monitoring wells (11 FWBZ and four SWBZ wells) are used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 10-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 10-1.

10.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 42 groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 9 Group. The results are presented along with previously collected water-level data in Table 10-2. Groundwater flow direction and gradient are discussed in Section 10.4.1; trends in groundwater elevation data are discussed in Section 10.4.4.

10.2 ANALYTICAL PARAMETERS

Groundwater samples collected from monitoring wells at IR Site 9 Group during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- TPH as diesel, motor oil, and jet fuel by EPA Method 8015B
- TPH as gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 10-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

10.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 through Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 10-3 through 10-6 as follows:

- Table 10-3, "Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006."
- Table 10-4, "Groundwater Sample Analytical Results at IR Site 9 Group: Dissolved Metals, Summer 2002 through Spring 2006."
- Table 10-5, "Groundwater Sampling Field Parameters at IR Site 9 Group, Summer 2002 through Spring 2006."
- Table 10-6, "Groundwater Sample Analytical Results at IR Site 9 Group: Natural Attenuation Parameters, Summer 2002 through Spring 2006."

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

10.4 DISCUSSION OF RESULTS

Groundwater samples collected in the Summer 2005 through Spring 2006 sampling year indicated that TPH were detected at low to high values in most FWBZ wells; the highest TPH concentration found was 24,000 µg/L TPH characterized as diesel in a groundwater sample collected from well 530MJ-MW1 (Table 10-3). Most TPH values were relatively low; only four of the FWBZwells had concentrations of TPH greater than 1,000 µg/L. In the SWBZ, TPH were detected at above reporting limits in only one of the five SWBZ wells sampled, at 51 µg/L TPH characterized as jet fuel in a sample from well D13-01 (Table 10-3).

Concentrations of various aromatic and chlorinated hydrocarbons have been consistently detected in groundwater samples collected from certain groundwater monitoring wells screened in the FWBZ at the IR Site 9 Group. The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **PCE, vinyl chloride, 1,1-DCA,** and **1,2-DCA** (Table 10-7). The distribution of aromatic and chlorinated hydrocarbons in FWBZ groundwater monitoring wells at the IR Site 9 Group are discussed more fully in Section 10.4.2.

Only trace VOC concentrations (none greater than MCLs) were detected in groundwater collected from IR Site 9 Group monitoring wells screened in the SWBZ during current sampling year events (Table 10-7).

The following dissolved metals were detected at concentrations exceeding their respective MCLs in IR Site 9 Group wells during the Summer 2005 to Spring 2006 sampling year: **arsenic** in five FWBZ wells, **thallium** in one FWBZ well and one SWBZ well, and **selenium** in one SWBZ well (Table 10-7). The distribution of dissolved metals in groundwater monitoring wells at the IR Site 9 Group is discussed more fully in Section 10.4.2.

10.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 10-2. Groundwater flow direction in the First Water-Bearing Zone at IR Site 9 Group is highly variable as exhibited by the greatly curving contours, but the overall groundwater flow direction is generally to the west, at an average gradient of approximately 0.0015 feet per foot.

Groundwater flow direction in the Second Water-Bearing Zone at IR Site 9 Group is also somewhat variable across the site, but is generally towards the west at a gradient of approximately 0.0015 feet per foot. Water levels in the SWBZ wells at IR Site 9 Group are generally 0.3 to 2 feet lower than nearby FWBZ wells, indicating an overall downward vertical gradient.

10.4.2 Groundwater Contaminant Distribution

Aromatic and chlorinated hydrocarbons and TPH are present in groundwater at the IR Site 9 Group. The distribution of selected aromatic and chlorinated hydrocarbons and TPH are shown on Figure 10-3 and Figure 10-4, respectively. Cis-1,2-DCE and benzene were chosen as indicator compounds to show the distribution of volatile organic constituents in groundwater. All volatile organic constituents that were detected at concentrations exceeding MCLs during the current sampling year (Summer 2005 through Spring 2006) fall within the plume boundaries shown on Figures 10-3 and 10-4. The highest concentrations of volatile organic constituents are found in three areas: (1) near the northwestern corner of the site at wells MWD13-4 (where six chlorinated VOCs have been found, and PCE and 1,1-DCA have characteristically exceeded MCLs) and M13-P, with 1,2-DCA detections generally above MCLs; (2) near the southwestern corner of the site at well MW410-2, where cis-1,2-DCE and vinyl chloride have characteristically exceeded MCLs (Table 10-3); and (3) near the northeastern corner of the site at well MW547-3, where benzene has characteristically exceeded MCLs and TPH concentrations are relatively high.

Concentrations of arsenic, thallium, and selenium are present in groundwater at the IR Site 9 Group at concentrations above MCLs. In the current sampling year, arsenic exceedances of the MCL occurred in Summer 2005 at five FWBZ wells: M07C-06, M13-07, MW410-2, MW530-2, and MW547-3; values were also above background values for arsenic in groundwater. Except for two wells in the northeasterm part of the site (M07C-06 and MW547-3), these wells are widely separated, such that a well-defined arsenic plume is not apparent. However, the consistent MCL exceedances at these wells (all five wells have exceeded the MCL in most or all sampling events) suggests that ongoing arasenic contamination is present in groundwater across a limited area at IR Site 9 Group.

Thallium exceeded its MCL and background value in FWBZ well MW410-3 in the southwestern part of the site and in SWBZ well D07C-01 in the northeastern part of the site. Selenium exceeded its MCL in SWBZ well D09-01 in the southwestern part of the site. However, in all three cases, the detections were the only ones above MCLs for these metals in the entire period of monitoring since 2002. Thus these single detections p[robably do not signify an ongoing contaminant plume of thallium or selenium.

Arsenic, however, has consistently exceeded MCLs at five wells at different parts of the site. At one of these wells (MW530-2), arsenic values are only slightly above background, and may represent natural conditions rather than contamination. At the other four wells (M07C-06, M13-07, MW410-2, and MW547-3) the arsenic MCL exceedances appear to signify locally reducing conditions, based on high iron (at 2,000 to 43,000 µg/L) and low ORP, rather than representing a contiguous plume.

10.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 10-7, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 10-7 also lists the historical maximum concentration (Summer 2002 through Spring 2005) for each analyte.

For most analytes (VOCs and dissolved metals) sampled in IR Site 9 Group wells had analytical results for the current sampling year that were of a similar magnitude as those found in previous sampling years. However, at a number of wells, concentrations of TPH were considerably lower in the last two sampling events (Summer 2005 and Spring 2006) than the previous sampling year (Summer 2004 through Spring 2005) but still higher than historical data prior to 2004. With respect to MCL exceedances, the following changes were observed (Table 10-7):

- Benzene and cis-1,2-DCE exceeded MCLs in two wells historically, but were significantly below the MCL in all wells for the current sampling year;
- MTBE and 1,3-dichloropropane exceeded MCLs in one well historically, but were significantly below the MCL in all wells for the current sampling year;

- Nickel exceeded its MCL in one well historically, but was significantly below the MCL in all wells for the current sampling year;
- Selenium exceeded its MCL in one well in a single event for the current sampling year, while previous exceedances had not been noted;
- Thallium exceeded its MCL in one FWBZ well and one SWBZ well in a single event for the current sampling year, while previous exceedances had not been noted in the respective wells; however, thallium has exceeded its MCL in a different SWBZ well in a single event in Winter 2003.

10.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2006 Annual Report:

- Figure 10-5a, "Trends in Groundwater Elevations at IR Site 9 Group: East-West-Oriented FWBZ Wells, Summer 2002 through Spring 2006."
- Figure 10-5b, "Trends in Groundwater Elevations at IR Site 9 Group: East-West-Oriented SWBZ Wells, Summer 2002 through Spring 2006."

The following observations can be made from viewing the hydrographs:

1. Groundwater elevations for both FWBZ and SWBZ wells at the IR Site 9 Group show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. One SWBZ well (D09-01) is a partial exception to this pattern. FWBZ wells show a larger variation from season to season, while SWBZ wells display a more dampened pattern of smaller variation.
2. Hydrographs for IR Site 9 Group wells show a slight overall increase in groundwater elevations over time, with peak seasonal elevations for most wells having a tendency to increase every year since 2002.

10.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater at the IR Site 9 Group since monitoring was initiated in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 10-6 and 10-7.

Although the groundwater concentrations of benzene, TPH as gasoline, and chlorinated hydrocarbons (1,1-DCA, 1,2-DCA, cis-1,2-DCE, PCE, and vinyl chloride) show some fluctuation through time, the overall trends of the time-series plots indicate a general decrease in concentrations over time for these analytes, particularly for benzene. In addition, plume

boundaries appear to be stable: wells defining the plume boundaries consistently show low to non-detect concentrations of organic constituents, and the same constituents tend to show up in the same set of wells from one sampling event to another.

An exception to this pattern had been noted last year, when sharp increases in TPH characterized as diesel were noted for that year (Summer 2004 to Spring 2005; see Figure 10-7). In the current year, however, the TPH results declined to levels characteristic of the prior period of relatively low detections or non-detect values.

10.5 CONCLUSIONS AND RECOMMENDATIONS

Concentrations of various chlorinated hydrocarbons and three metals were reported at levels greater than MCLs from IR Site 9 Group wells for the current sampling year, and contamination by TPH has decreased to lower concentrations in the past year. Three areas of chlorinated hydrocarbon occurrence above MCLs exist in the northwestern, southwestern, and northeastern parts of the site, while areas of metals contamination above MCLs are present in several parts of the site. Among these analytes, the plumes appear to be stable, and the organic concentrations appear to be declining.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 10-1
Groundwater Monitoring Summary, IR Site 9 Group - Summer 2005 and Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds			Inorganic Compounds	Natural Attenuation Parameters				
				TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Groundwater Monitoring Program Wells												
First	530MJ-MW1	Fill-BSU	3 - 11.5	X	X	X						
	530MJ-MW2	Fill-BSU	2.5 - 11.1	X	X	X						
	M07C-06	Fill	4 - 14	X	X	X	X	X	X	X	X	X
	M07C-08	Fill-Upper Merritt	3.5 - 13.5	X	X	X	X	X	X	X	X	X
	M07C-09	Fill-Upper Merritt	4 - 14	X	X	X	X	X	X	X	X	X
	M10B-01	Fill-BSU	3 - 11	X	X	X	X	X	X	X	X	X
	M13-06	Fill	2 - 9.75	X	X	X	X	X	X	X	X	X
	M13-07	Fill-Upper Merritt	2.5 - 12.5	X	X	X	X	X	X	X	X	X
	M13-08	Upper Merritt	22 - 32	X	X	X	X	X	X	X	X	X
	M13-09	Fill-Upper Merritt	2.5 - 12.5	X	X	X	X	X	X	X	X	X
	M13-P	Unknown	10 - 35			X						
	MW-001	Fill	3.5 - 13.5	X	X	X	X	X	X	X	X	X
	MW410-1	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MW410-2	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MW410-3	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MW410-4	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MW530-2	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MW530-3	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MW547-3	Fill-BSU-Upper Merritt	5 - 15	X	X	X	X	X	X	X	X	X
	MWD13-3	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MWD13-4	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
	MWOR-4	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X
Second	D07C-01	Merritt	49 - 59	X	X	X	X	X	X	X	X	X
	D09-01	Merritt	50 - 60	X	X	X	X	X	X	X	X	X
	D10B-02	Merritt	50 - 60	X	X	X	X	X	X	X	X	X
	D13-01	Merritt	50 - 60	X	X	X	X	X	X	X	X	X
	D19-01	Merritt	50 - 60	X	X	X	X	X	X	X	X	X

Table 10-1
Groundwater Monitoring Summary, IR Site 9 Group - Summer 2005 and Spring 2006

				Organic Compounds			Inorganic Compounds	Natural Attenuation Parameters				
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Non-Program Wells, Water Level Only												
First	372-MW2	Fill	2.6 - 12.6	-	-	-	-	-	-	-	-	-
	M07C-07	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-
	M09-05	Fill	3.5 - 13.5	-	-	-	-	-	-	-	-	-
	M09-06	Fill	4 - 14	-	-	-	-	-	-	-	-	-
	MW530-1	Upper Merritt	5 - 15	-	-	-	-	-	-	-	-	-
	M-IMF-01	Upper Merritt	4 - 13.5	-	-	-	-	-	-	-	-	-
	MWOR-1	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
	MWOR-2	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
	MWOR-3	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
	MWOR-4	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
	MWOR-5	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
Second	D10B-01	Merritt	50 - 60	-	-	-	-	-	-	-	-	-
	MW547-4	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
	MW547-5	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
	M19-05	Merritt	20 - 30	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	372-MW2 ‡	12.2	11.89	04/11/06	2.49	9.40
		12.2	11.89	08/23/05	3.66	8.23
		12.2	11.89	03/02/05	2.56	9.33
		12.2	11.89	11/09/04	3.88	8.01
		12.2	11.89	06/15/04	4.18	7.71
		12.2	11.89	03/01/04	2.73	9.16
		12.2	11.89	12/02/03	3.06	8.83
		12.2	11.89	09/15/03	4.32	7.57
First	530MJ-MW1	11.6	11.08	04/11/06	2.30	8.78
		11.6	11.08	08/23/05	3.91	7.17
		11.6	11.08	03/02/05	2.99	8.09
		11.6	11.08	11/09/04	4.99	6.09
		11.6	11.08	06/15/04	5.06	6.02
		11.6	11.08	03/01/04	7.57	3.51
		11.6	11.08	12/02/03	6.93	4.15
		11.6	11.08	09/15/03	6.32	4.76
First	530MJ-MW2	11.4	11.12	04/11/06	2.55	8.57
		11.4	11.12	08/23/05	4.03	7.09
		11.4	11.12	03/02/05	2.98	8.14
		11.4	11.12	11/09/04	4.82	6.30
		11.4	11.12	06/15/04	5.04	6.08
		11.4	11.12	03/01/04	4.89	6.23
		11.4	11.12	12/02/03	5.61	5.51
		11.4	11.12	09/15/03	4.80	6.32
First	M07C-06	13.1	12.66 *	04/11/06	2.30	10.36
		13.1	12.66 *	08/23/05	3.90	8.76
		13.1	12.66 *	03/02/05	1.54	11.12
		13.1	12.66 *	11/09/04	4.60	8.06
		13.1	12.66 *	06/15/04	4.42	8.24
		13.1	12.66 *	03/01/04	3.60	9.06
		13.1	12.66 *	12/02/03	5.01	7.65
		13.1	12.66 *	09/15/03	4.77	7.89
		13.1	12.66 *	06/23/03	4.35	8.31
		13.1	12.66 *	04/07/03	3.46	9.20
		13.1	12.66 *	12/12/02	4.82	7.84
		13.1	12.66 *	09/03/02	4.81	7.85
		13.1	12.66 *	06/21/02	4.12	8.54
First	M07C-07 ‡	12.4	12.11 **	04/11/06	2.45	9.66
		12.4	12.11 **	08/23/05	3.84	8.27
		12.4	12.11 **	03/02/05	2.23	9.88
		12.4	12.11 **	11/09/04	3.66	8.45
		12.4	12.11 **	06/15/04	3.69	8.42
		12.4	12.11 **	03/01/04	2.08	10.03
		12.4	12.11 **	12/02/03	3.97	8.14
		12.4	12.11 **	09/15/03	4.19	7.92
		12.4	12.11 **	06/23/03	3.20	8.91
		12.4	12.11 **	04/07/03	2.95	9.16

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M07C-08	12.7	12.39 *	04/11/06	1.35	11.04
		12.7	12.39 *	08/23/05	4.18	8.21
		12.7	12.39 *	03/02/05	0.96	11.43
		12.7	12.39 *	11/09/04	4.00	8.39
		12.7	12.39 *	06/15/04	3.98	8.41
		12.7	12.39 *	03/01/04	2.09	10.30
		12.7	12.39 *	12/02/03	4.23	8.16
		12.7	12.39 *	09/15/03	4.44	7.95
		12.7	12.39 *	06/23/03	3.70	8.69
		12.7	12.39 *	04/07/03	2.71	9.68
		12.7	12.39 *	12/12/02	4.25	8.14
		12.7	12.39 *	07/24/02	4.22	8.17
First	M07C-09	12.5	12.09 *	04/11/06	3.23	8.86
		12.5	12.09 *	08/23/05	2.23	9.86
		12.5	12.09 *	03/02/05	2.71	9.38
		12.5	12.09 *	11/09/04	4.43	7.66
		12.5	12.09 *	06/15/04	3.26	8.83
		12.5	12.09 *	03/01/04	2.62	9.47
		12.5	12.09 *	12/02/03	4.55	7.54
		12.5	12.09 *	09/15/03	4.51	7.58
		12.5	12.09 *	06/23/03	3.80	8.29
		12.5	12.09 *	04/07/03	4.21	7.88
		12.5	12.09 *	12/12/02	4.45	7.64
		12.5	12.09 *	09/03/02	4.22	7.87
		12.5	12.09 *	06/19/02	4.60	7.49
First	M09-05 ‡	13.4	13.11 **	04/11/06	4.65	8.46
		13.4	13.11 **	08/23/05	6.20	6.91
		13.4	13.11 **	03/02/05	5.45	7.66
		13.4	13.11 **	11/09/04	7.09	6.02
		13.4	13.11 **	06/15/04	7.01	6.10
		13.4	13.11 **	03/01/04	6.54	6.57
		13.4	13.11 **	12/02/03	7.64	5.47
		13.4	13.11 **	09/15/03	7.29	5.82
First	M09-06 ‡	13.8	13.59 **	04/11/06	5.10	8.49
		13.8	13.59 **	08/23/05	6.53	7.06
		13.8	13.59 **	03/02/05	5.94	7.65
		13.8	13.59 **	11/09/04	7.56	6.03
		13.8	13.59 **	06/15/04	7.44	6.15
		13.8	13.59 **	03/01/04	6.89	6.70
		13.8	13.59 **	12/02/03	7.98	5.61
		13.8	13.59 **	09/15/03	7.68	5.91
First	M10B-01	13.0	12.66 *	04/11/06	4.10	8.56
		13.0	12.66 *	08/22/05	6.14	6.52
		13.0	12.66 *	03/02/05	4.82	7.84
		13.0	12.66 *	11/09/04	6.86	5.80
		13.0	12.66 *	06/15/04	6.81	5.85
		13.0	12.66 *	03/01/04	5.92	6.74

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M10B-01	13.0	12.66 *	12/02/03	7.28	5.38
		13.0	12.66 *	09/15/03	7.30	5.36
		13.0	12.66 *	06/23/03	6.75	5.91
		13.0	12.66 *	04/07/03	6.36	6.30
		13.0	12.66 *	12/12/02	6.88	5.78
		13.0	12.66 *	09/03/02	6.60	6.06
		13.0	12.66 *	06/18/02	6.26	6.40
First	M13-06	12.4	12.19 *	04/11/06	NM	NC
		12.4	12.19 *	08/23/05	5.30	6.89
		12.4	12.19 *	03/02/05	1.56	10.63
		12.4	12.19 *	11/09/04	5.39	6.80
		12.4	12.19 *	06/15/04	NM	NC
		12.4	12.19 *	03/01/04	2.39	9.80
		12.4	12.19 *	12/03/03	5.90	6.29
		12.4	12.19 *	09/15/03	5.95	6.24
		12.4	12.19 *	06/23/03	5.25	6.94
		12.4	12.19 *	04/07/03	4.63	7.56
		12.4	12.19 *	12/12/02	5.72	6.47
		12.4	12.19 *	06/18/02	5.29	6.90
First	M13-07	12.9	12.59 *	04/11/06	2.65	9.94
		12.9	12.59 *	08/23/05	5.07	7.52
		12.9	12.59 *	03/02/05	3.40	9.19
		12.9	12.59 *	11/09/04	5.40	7.19
		12.9	12.59 *	06/15/04	5.19	7.40
		12.9	12.59 *	03/01/04	2.81	9.78
		12.9	12.59 *	12/02/03	5.54	7.05
		12.9	12.59 *	09/15/03	5.78	6.81
		12.9	12.59 *	06/23/03	4.90	7.69
		12.9	12.59 *	04/07/03	4.45	8.14
		12.9	12.59 *	12/12/02	5.62	6.97
		12.9	12.59 *	06/18/02	4.97	7.62
First	M13-08	11.6	11.31 *	04/11/06	1.00	10.31
		11.6	11.31 *	08/23/05	2.23	9.08
		11.6	11.31 *	03/02/05	0.83	10.48
		11.6	11.31 *	11/09/04	3.01	8.30
		11.6	11.31 *	06/15/04	3.04	8.27
		11.6	11.31 *	03/01/04	1.05	10.26
		11.6	11.31 *	12/02/03	3.21	8.10
		11.6	11.31 *	09/15/03	3.32	7.99
		11.6	11.31 *	06/23/03	2.60	8.71
		11.6	11.31 *	04/07/03	1.65	9.66
		11.6	11.31 *	12/12/02	3.40	7.91
		11.6	11.31 *	06/20/02	2.90	8.41
First	M13-09	11.9	11.54 *	04/11/06	1.90	9.64
		11.9	11.54 *	08/23/05	3.36	8.18
		11.9	11.54 *	03/02/05	1.69	9.85
		11.9	11.54 *	11/09/04	3.36	8.18

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M13-09	11.9	11.54 *	06/15/04	3.31	8.23
		11.9	11.54 *	06/19/02	3.03	8.51
		11.9	11.54 *	03/01/04	NA	NC
		11.9	11.54 *	12/02/03	3.73	7.81
		11.9	11.54 *	09/16/03	3.94	7.60
		11.9	11.54 *	06/23/03	3.05	8.49
		11.9	11.54 *	04/08/03	2.44	9.10
		11.9	11.54 *	12/17/02	2.05 §	9.49
First	M13-P	12.5	12.36	04/11/06	2.76	9.60
		12.5	12.36	08/23/05	4.70	7.66
		12.5	12.36	03/02/05	2.90	9.46
		12.5	12.36	11/09/04	4.99	7.37
		12.5	12.36	06/15/04	4.83	7.53
		12.5	12.36	03/01/04	2.50	9.86
		12.5	12.36	12/02/03	5.36	7.00
		12.5	12.36	09/15/03	4.94	7.42
First	MW-001	12.6	13.82 *	04/11/06	1.80	12.02
		12.6	13.82 *	08/23/05	5.81	8.01
		12.6	13.82 *	03/02/05	1.91	11.91
		12.6	13.82 *	11/09/04	5.11	8.71
		12.6	13.82 *	06/16/04	4.70	9.12
		12.6	13.82 *	03/01/04	2.80	11.02
		12.6	13.82 *	12/02/03	6.48	7.34
		12.6	13.82 *	09/15/03	6.48	7.34
		12.6	13.82 *	06/23/03	5.50	8.32
		12.6	13.82 *	04/07/03	4.62	9.20
		12.6	13.82 *	12/17/02	3.26 §	10.56
		12.6	13.82 *	06/18/02	6.00	7.82
First	MW410-1	13.0	12.41 *	04/11/06	3.61	8.80
		13.0	12.41 *	08/23/05	5.24	7.17
		13.0	12.41 *	03/02/05	3.83	8.58
		13.0	12.41 *	11/09/04	5.82	6.59
		13.0	12.41 *	06/15/04	5.58	6.83
		13.0	12.41 *	03/01/04	4.49	7.92
		13.0	12.41 *	12/02/03	6.09	6.32
		13.0	12.41 *	09/15/03	5.93	6.48
		13.0	12.41 *	06/23/03	5.35	7.06
		13.0	12.41 *	04/07/03	5.05	7.36
		13.0	12.41 *	12/12/02	6.07	6.34
		13.0	12.41 *	09/03/02	5.75	6.66
		13.0	12.41 *	06/18/02	5.28	7.13
First	MW410-2	13.9	13.15 *	04/11/06	5.02	8.13
		13.9	13.15 *	08/23/05	6.19	6.96
		13.9	13.15 *	03/02/05	5.77	7.38
		13.9	13.15 *	11/09/04	7.14	6.01
		13.9	13.15 *	06/15/04	6.98	6.17
		13.9	13.15 *	03/01/04	6.32	6.83
		13.9	13.15 *	12/02/03	7.48	5.67

Table 10-2
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Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW410-2	13.9	13.15 *	09/15/03	7.21	5.94
		13.9	13.15 *	06/23/03	7.80	5.35
		13.9	13.15 *	04/07/03	6.45	6.70
		13.9	13.15 *	12/12/02	7.12	6.03
		13.9	13.15 *	09/03/02	6.83	6.32
		13.9	13.15 *	06/18/02	6.43	6.72
First	MW410-3	12.3	11.77 *	04/11/06	3.57	8.20
		12.3	11.77 *	08/23/05	4.87	6.90
		12.3	11.77 *	03/02/05	4.29	7.48
		12.3	11.77 *	11/09/04	5.85	5.92
		12.3	11.77 *	06/15/04	5.70	6.07
		12.3	11.77 *	03/01/04	5.05	6.72
		12.3	11.77 *	12/02/03	6.11	5.66
		12.3	11.77 *	09/15/03	5.90	5.87
		12.3	11.77 *	06/24/03	5.27	6.50
		12.3	11.77 *	04/07/03	5.11	6.66
		12.3	11.77 *	12/12/02	5.70	6.07
		12.3	11.77 *	09/03/02	5.33	6.44
		12.3	11.77 *	06/18/02	5.00	6.77
First	MW410-4	13.0	12.31 *	04/11/06	4.00	8.31
		13.0	12.31 *	08/23/05	5.36	6.95
		13.0	12.31 *	03/02/05	4.82	7.49
		13.0	12.31 *	11/09/04	9.47	2.84
		13.0	12.31 *	06/15/04	6.41	5.90
		13.0	12.31 *	03/01/04	6.11	6.20
		13.0	12.31 *	12/02/03	7.14	5.17
		13.0	12.31 *	09/15/03	6.76	5.55
		13.0	12.31 *	06/24/03	6.06	6.25
		13.0	12.31 *	04/07/03	6.00	6.31
		13.0	12.31 *	12/12/02	6.22	6.09
		13.0	12.31 *	09/03/02	5.76	6.55
		13.0	12.31 *	06/18/02	5.37	6.94
First	MW530-2	12.8	12.22 *	04/11/06	3.66	8.56
		12.8	12.22 *	08/23/05	5.04	7.18
		12.8	12.22 *	03/02/05	4.52	7.70
		12.8	12.22 *	11/09/04	6.62	5.60
		12.8	12.22 *	06/15/04	6.87	5.35
		12.8	12.22 *	03/01/04	8.13	4.09
		12.8	12.22 *	12/02/03	8.32	3.90
		12.8	12.22 *	09/15/03	7.28	4.94
		12.8	12.22 *	06/23/03	6.75	5.47
		12.8	12.22 *	04/07/03	6.71	5.51
		12.8	12.22 *	12/12/02	6.28	5.94
		12.8	12.22 *	06/18/02	5.09	7.13
First	MW530-3	11.1	11.80 *	04/11/06	NM	NC
		11.1	11.80 *	08/23/05	3.76	8.04
		11.1	11.80 *	03/02/05	2.49	9.31

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MW530-3	11.1	11.80 *	11/09/04	4.47	7.33
		11.1	11.80 *	06/15/04	4.92	6.88
		11.1	11.80 *	03/01/04	4.26	7.54
		11.1	11.80 *	12/02/03	4.89	6.91
		11.1	11.80 *	09/15/03	5.33	6.47
		11.1	11.80 *	06/23/03	4.69	7.11
		11.1	11.80 *	04/07/03	4.23	7.57
		11.1	11.80 *	12/12/02	4.21	7.59
		11.1	11.80 *	06/18/02	3.82	7.98
First	MW547-3	14.1	13.70 *	04/11/06	4.03	9.67
		14.1	13.70 *	08/23/05	5.55	8.15
		14.1	13.70 *	03/02/05	2.55	11.15
		14.1	13.70 *	11/09/04	5.69	8.01
		14.1	13.70 *	06/15/04	4.23	9.47
		14.1	13.70 *	03/01/04	2.95	10.75
		14.1	13.70 *	12/02/03	5.85	7.85
		14.1	13.70 *	09/15/03	5.56	8.14
		14.1	13.70 *	06/23/03	4.65	9.05
		14.1	13.70 *	04/07/03	4.28	9.42
		14.1	13.70 *	12/12/02	5.73	7.97
		14.1	13.70 *	09/03/02	6.67	7.03
		14.1	13.70 *	06/20/02	4.90	8.80
First	MWD13-1 ‡	12.52	12.52 **	04/10/06	2.82	9.70
		12.52	12.52 **	10/12/05	4.58	7.94
		12.52	12.52 **	03/02/05	3.12	9.40
		12.52	12.52 **	11/08/04	NM	NC
		12.52	12.52 **	06/15/04	NF	NC
		12.52	12.52 **	03/01/04	NF	NC
		12.52	12.52 **	12/02/03	4.77	7.75
		12.52	12.52 **	09/15/03	5.03	7.49
		12.52	12.52 **	06/23/03	4.45	8.07
		12.52	12.52 **	04/07/03	4.26	8.26
First	MWD13-2 ‡	12.4	12.06 **	08/23/05	3.75	8.31
		12.4	12.06 **	03/02/05	2.48	9.58
		12.4	12.06 **	11/08/04	4.18	7.88
		12.4	12.06 **	06/15/04	NM	NC
		12.4	12.06 **	03/01/04	3.92	8.14
		12.4	12.06 **	12/02/03	3.50	8.56
		12.4	12.06 **	09/16/03	4.25	7.81
		12.4	12.06 **	06/23/03	3.91	8.15
		12.4	12.06 **	04/07/03	3.65	8.41
First	MWD13-3	12.7	12.50 *	04/11/06	2.63	9.87
		12.7	12.50 *	08/23/05	4.70	7.80
		12.7	12.50 *	03/02/05	3.13	9.37
		12.7	12.50 *	11/09/04	4.96	7.54
		12.7	12.50 *	06/15/04	4.82	7.68
		12.7	12.50 *	03/01/04	3.45	9.05
		12.7	12.50 *	12/02/03	4.93	7.57

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWD13-3	12.7	12.50 *	09/15/03	5.30	7.20
		12.7	12.50 *	06/23/03	4.65	7.85
		12.7	12.50 *	04/07/03	4.29	8.21
		12.7	12.50 *	12/12/02	5.44	7.06
		12.7	12.50 *	06/19/02	4.71	7.79
First	MWD13-4	14.0	13.67 *	04/11/06	3.81	9.86
		14.0	13.67 *	08/23/05	5.89	7.78
		14.0	13.67 *	03/02/05	4.32	9.35
		14.0	13.67 *	11/09/04	6.17	7.50
		14.0	13.67 *	06/15/04	5.99	7.68
		14.0	13.67 *	03/01/04	4.63	9.04
		14.0	13.67 *	12/02/03	6.13	7.54
		14.0	13.67 *	09/15/03	6.48	7.19
		14.0	13.67 *	06/23/03	5.83	7.84
		14.0	13.67 *	04/07/03	5.47	8.20
		14.0	13.67 *	12/12/02	6.64	7.03
		14.0	13.67 *	09/03/02	6.51	7.16
		14.0	13.67 *	06/19/02	5.60	8.07
First	MWOR-1 ‡	12.5	12.35 **	04/11/06	2.71	9.64
		12.5	12.35 **	08/23/05	4.54	7.81
		12.5	12.35 **	03/02/05	3.35	9.00
		12.5	12.35 **	11/09/04	5.42	6.93
		12.5	12.35 **	06/15/04	4.96	7.39
		12.5	12.35 **	03/01/04	3.80	8.55
		12.5	12.35 **	12/02/03	5.84	6.51
		12.5	12.35 **	09/15/03	5.86	6.49
		12.5	12.35 **	06/23/03	5.00	7.35
		12.5	12.35 **	04/07/03	4.57	7.78
First	MWOR-2 ‡	12.6	12.12 **	04/11/06	2.96	9.16
		12.6	12.12 **	08/23/05	4.82	7.30
		12.6	12.12 **	03/02/05	3.25	8.87
		12.6	12.12 **	11/09/04	5.29	6.83
		12.6	12.12 **	06/15/04	5.08	7.04
		12.6	12.12 **	03/01/04	3.70	8.42
		12.6	12.12 **	12/02/03	5.62	6.50
		12.6	12.12 **	09/15/03	5.45	6.67
		12.6	12.12 **	06/23/03	4.60	7.52
		12.6	12.12 **	04/07/03	NF	NC
First	MWOR-3 ‡	13.4	12.94 **	04/11/06	0.73	12.21
		13.4	12.94 **	08/23/05	4.38	8.56
		13.4	12.94 **	03/02/05	0.25	12.69
		13.4	12.94 **	11/09/04	4.67	8.27
		13.4	12.94 **	06/15/04	4.34	8.60
		13.4	12.94 **	03/01/04	0.96	11.98
		13.4	12.94 **	12/02/03	5.37	7.57
		13.4	12.94 **	09/15/03	4.94	8.00
First	MWOR-3 ‡	13.4	12.94 **	06/23/03	4.05	8.89
		13.4	12.94 **	04/07/03	3.31	9.63

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWOR-4	11.8	11.47 *	04/11/06	1.15	10.32
		11.8	11.47 *	08/23/05	2.99	8.48
		11.8	11.47 *	03/02/05	0.74	10.73
		11.8	11.47 *	11/09/04	3.58	7.89
		11.8	11.47 *	06/15/04	3.5	7.97
		11.8	11.47 *	03/01/04	NA	NC
		11.8	11.47 *	12/02/03	3.88	7.59
		11.8	11.47 *	09/15/03	4.13	7.34
		11.8	11.47 *	06/24/03	3.35	8.12
		11.8	11.47 *	04/08/03	2.61	8.86
		11.8	11.47 *	12/12/02	3.89	7.58
		11.8	11.47 *	06/19/02	3.36	8.11
First	MWOR-5 ‡	12.4	11.66 **	04/11/06	2.40	9.26
		12.4	11.66 **	08/23/05	4.10	7.56
		12.4	11.66 **	03/02/05	1.60	10.06
		12.4	11.66 **	11/09/04	4.03	7.63
		12.4	11.66 **	06/15/04	4.25	7.41
		12.4	11.66 **	03/01/04	NA	NC
		12.4	11.66 **	12/02/03	NF	NC
		12.4	11.66 **	09/15/03	4.57	7.09
		12.4	11.66 **	06/24/03	4.06	7.60
		12.4	11.66 **	04/08/03	2.22	9.44
Second	D07C-01	13.0	12.75 *	04/11/06	1.67	11.08
		13.0	12.75 *	08/23/05	4.76	7.99
		13.0	12.75 *	03/02/05	2.94	9.81
		13.0	12.75 *	11/09/04	4.79	7.96
		13.0	12.75 *	06/15/04	4.86	7.89
		13.0	12.75 *	03/01/04	3.26	9.49
		13.0	12.75 *	12/02/03	5.10	7.65
		13.0	12.75 *	09/15/03	5.14	7.61
		13.0	12.75 *	06/23/03	4.70	8.05
		13.0	12.75 *	04/07/03	4.40	8.35
		13.0	12.75 *	12/12/02	5.14	7.61
		13.0	12.75 *	07/11/02	4.64	8.11
Second	D09-01	13.8	13.50 *	04/11/06	6.00	7.50
		13.8	13.50 *	08/23/05	7.13	6.37
		13.8	13.50 *	03/02/05	6.38	7.12
		13.8	13.50 *	11/09/04	7.79	5.71
		13.8	13.50 *	06/15/04	7.76	5.74
		13.8	13.50 *	03/01/04	6.76	6.74
		13.8	13.50 *	12/02/03	6.16	7.34
		13.8	13.50 *	09/15/03	8.01	5.49
		13.8	13.50 *	06/23/03	7.80	5.70
		13.8	13.50 *	04/07/03	7.84	5.66
		13.8	13.50 *	12/12/02	8.12	5.38
Second	D09-01	13.8	13.50 *	09/03/02	8.20	5.30
		13.8	13.50 *	06/28/02	9.60	3.90

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	D10B-01 ‡	11.1	10.97	04/11/06	2.25	8.72
		11.1	10.97	08/23/05	3.84	7.13
		11.1	10.97	03/02/05	2.97	8.00
		11.1	10.97	11/09/04	4.41	6.56
		11.1	10.97	06/15/04	4.43	6.54
		11.1	10.97	03/01/04	3.96	7.01
		11.1	10.97	12/02/03	5.18	5.79
		11.1	10.97	09/15/03	4.95	6.02
Second	D10B-02	12.9	12.38 *	04/11/06	3.45	8.93
		12.9	12.38 *	08/23/05	5.04	7.34
		12.9	12.38 *	03/02/05	3.79	8.59
		12.9	12.38 *	11/09/04	5.32	7.06
		12.9	12.38 *	06/15/04	5.31	7.07
		12.9	12.38 *	03/01/04	4.11	8.27
		12.9	12.38 *	12/02/03	5.66	6.72
		12.9	12.38 *	09/15/03	5.69	6.69
		12.9	12.38 *	06/23/03	5.25	7.13
		12.9	12.38 *	04/07/03	5.16	7.22
		12.9	12.38 *	12/12/02	5.54	6.84
		12.9	12.38 *	06/28/02	5.55	6.83
Second	D13-01	11.8	11.61 *	04/11/06	1.75	9.86
		11.8	11.61 *	08/23/05	3.46	8.15
		11.8	11.61 *	03/02/05	1.76	9.85
		11.8	11.61 *	11/09/04	3.59	8.02
		11.8	11.61 *	06/15/04	3.69	7.92
		11.8	11.61 *	03/01/04	NA	NC
		11.8	11.61 *	12/03/03	4.05	7.56
		11.8	11.61 *	09/15/03	3.99	7.62
		11.8	11.61 *	06/24/03	3.55	8.06
		11.8	11.61 *	04/08/03	3.28	8.33
		11.8	11.61 *	12/12/02	3.95	7.66
		11.8	11.61 *	07/08/02	3.79	7.82
Second	D19-01	12.2	11.85 *	04/11/06	3.93	7.92
		12.2	11.85 *	08/23/05	5.35	6.50
		12.2	11.85 *	03/02/05	4.12	7.73
		12.2	11.85 *	11/09/04	5.26	6.59
		12.2	11.85 *	06/15/04	5.34	6.51
		12.2	11.85 *	03/01/04	4.33	7.52
		12.2	11.85 *	12/02/03	5.71	6.14
		12.2	11.85 *	09/15/03	5.62	6.23
		12.2	11.85 *	06/23/03	5.40	6.45
		12.2	11.85 *	04/07/03	5.37	6.48
		12.2	11.85 *	12/09/02	5.68	6.17
		12.2	11.85 *	07/12/02	5.70	6.15

Table 10-2
Summary of Groundwater Level Measurements at IR Site 9
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
Second	M19-05 ‡	12.8	12.45 **	04/11/06	3.04	9.41
		12.8	12.45 **	08/23/05	4.40	8.05
		12.8	12.45 **	03/02/05	3.65	8.80
		12.8	12.45 **	11/09/04	4.96	7.49
		12.8	12.45 **	03/01/04	4.14	8.31
		12.8	12.45 **	03/01/04	4.14	8.31
		12.8	12.45 **	12/02/03	5.50	6.95
		12.8	12.45 **	09/15/03	5.39	7.06
		12.8	12.45 **	06/24/03	NM	NC
		12.8	12.45 **	04/07/03	4.47	7.98

Notes:

BTOC = below top of casing

msl = mean sea level

NA = Not available

NC = Groundwater elevation not calculated

NF = Monitoring well not found

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

** = Converted from Mean Lower Low Water to NAVD 88 by Shaw Environmental, Inc. using the Tidal Datum Epoch (1960-1978) at Tidal Bench Mark 9414750

§ = Measured prior to purging well for sampling

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 10-3

Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
530MJ-MW1	2005 02 (Summer)		24,000	15,000	< 3,000	280	39,280	0.10 J	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2005 01 (Spring)		190,000	74,000	5,500 J	320	269,820	0.10 J	< 0.50	0.10 J	< 0.50	< 0.50	1.1 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 04 (Winter)		16,000	7,400	520	< 50.0	23,920	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	0.70 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
	2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 01 (Spring)		1,800	200 J	160 J	400	2,560	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	2003 04 (Winter)		3,300	390	320	179	4,189	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	1.1 J	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
	2003 03 (Fall)		2,400	220 J	650	610	3,880	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	4.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
530MJ-MW2	2005 02 (Summer)		9,900	6,700	250 J	170	17,020	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2005 01 (Spring)		27,000	12,000	1,500	150	40,650	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 04 (Winter)		6,300	4,000	220 J	85.0	10,605	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 02 (Summer)		-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 01 (Spring)		1,900	220 J	< 190	240	2,360	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	2003 04 (Winter)		910	< 280	< 190	407	1,317	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 0.50	< 1.0	< 0.50
	2003 03 (Fall)		1,200	230 J	< 190	250	1,680	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	1.2 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
M07C-06	2005 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2005 01 (Spring)		750	51.0	580	< 50.0	1,381	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 04 (Winter)		440	79.0	360	< 50.0	879	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 01 (Spring)		140 J	< 280	< 190	< 50.0	140	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	2003 04 (Winter)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
	2003 03 (Fall)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	2003 02 (Summer)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	2003 01 (Spring)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2002 03 (Fall)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2002 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
M07C-08	2006 01 (Spring)		< 50.0	< 50.0	54.0 J	< 50.0 UJ	54.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2005 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 04 (Winter)		< 50.0	< 50.0	94.0 J	< 50.0	94.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2003 04 (Winter)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	2003 02 (Summer)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2002 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50 UJ	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50
M07C-09	2005 02 (Summer)		< 50.0	< 50.0	< 300	20.0 J	20.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2005 01 (Spring)		77.0	< 50.0	160 J	< 50.0	237	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 04 (Winter)		120	< 50.0	310	< 50.0	430	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

FWBZ

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-3

Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07C-09	2004 01 (Spring)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	**0.21 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**100 J**	< 280	**140 J**	< 50.0	**240**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**150**	< 50.0	**290 J**	< 50.0	**440**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M10B-01	2005 02 (Summer)	< 50.0	< 50.0 UJ	**160 J**	< 50.0	**160**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**1,200**	**200**	**980**	< 50.0	**2,380**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**660**	**53.0**	**530**	< 50.0	**1,243**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 200	< 300	< 200	**34.0 J**	**34.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 200	< 290 UJ	< 200	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-06	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**780**	**75.0**	**550**	< 50.0	**1,405**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50
	M13-07	2006 01 (Spring)	< 50.0	< 50.0	< 300	**93.0 J**	**93.0**	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	**1.6 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**250**	**670**	< 300	**320**	**1,240**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	**180**	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 04 (Winter)	**11,000**	**6,100**	**360**	**280**	**17,740**	< 0.50	**0.60**	< 0.50	< 0.50	**0.20 J**	**140**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**160**	**320**	< 300	**260**	**740**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**64.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	**2,300**	**830**	< 190	**920**	**4,050**	< 0.50	< 1.0	< 1.0	< 1.0	**0.49 J**	**170 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**340**	**250 J**	< 190	**410**	**1,000**	< 0.50	**0.44 J**	< 1.0	< 1.0	< 1.0	**39.0**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	**450**	**810**	< 300	**520**	**1,780**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	**190**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**580**	**1,100**	< 300	**530**	**2,210**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**210**	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-08	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-3

Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds								Commonly Detected Chlorinated Hydrocarbons										
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M13-08	2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-09	2006 01 (Spring)	**46.0 J**	< 50.0	**290 J**	< 50.0	**336**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**23.0 J**	**23.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**980**	**76.0**	**480**	< 50.0	**1,536**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.34 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**680**	**71.0**	**840**	< 50.0	**1,591**	< 0.50	< 0.50	**1.3**	**1.6**	< 0.50	**1.1 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M13-P	2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.30 J**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	-	-	-	-	-	< 0.50	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 2.0	**0.20 J**	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	**0.51**	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
	MW-001	2005 02 (Summer)	**1,900**	**850**	**1,200**	**170**	**4,120**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**6,000**	**1,800**	**1,400**	**110**	**9,310**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**1.5 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**560**	**230**	**440**	**150**	**1,380**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	**2,400**	< 280	**1,500**	**270**	**4,170**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	**1,600**	< 280	**470**	**80.0**	**2,150**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	**1.5 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	**580**	**200**	**450**	**74.0**	**1,304**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**960**	**540**	**640**	**230**	**2,370**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**11.0**	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW410-1	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**1.1 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**110**	< 50.0	**140 J**	< 50.0	**250**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**3.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	**330**	< 50.0	**330**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 200 UJ	< 300 UJ	< 200 UJ	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-3

Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds								Commonly Detected Chlorinated Hydrocarbons										
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW410-1	2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.10 J**	**0.50 J**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW410-2	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	**0.050 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50	**0.40 J**	< 0.50	**0.70**	**0.40 J**
		2005 02 (Summer)	**20.0 J**	< 50.0	< 300	< 50.0	**20.0**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.70**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	< 0.50	**0.30 J**	< 0.50	< 0.50	**1.6**
		2005 01 (Spring)	**690**	**270**	**320**	< 50.0	**1,280**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**
		2004 04 (Winter)	-	-	-	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**2.3**	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10.0**	< 0.50	**0.70**	< 0.50	< 0.50	**3.7**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**2.0**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.4 J**	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	**28.0 J**	**28.0**	**0.31 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**3.6 J**	**0.39 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**9.6**	**0.23 J**	**0.59 J**	< 0.50	< 1.0	**4.1**
		2003 04 (Winter)	**180 J**	< 300	< 200	**40.0 J**	**220**	**0.92**	**0.26 J**	< 1.0	< 1.0	< 1.0	< 2.0 UJ	**9.2**	**1.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.41 J**	**19.0**	**0.55 J**	**1.9**	< 0.50	**5.9**	**17.0**
		2003 03 (Fall)	**150 J**	< 280 UJ	< 190	**50.0**	**200**	**0.94**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**8.3**	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**20.0**	**0.55 J**	**2.2**	< 0.50	< 1.0	**23.0**
		2003 02 (Summer)	**300**	< 280	< 190	**60.0**	**360**	**0.88**	**0.24 J**	**0.29 J**	< 1.0	< 1.0	< 2.0	**7.0**	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**18.0**	**0.62 J**	**1.9**	< 0.50	< 1.0	**22.0**
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**97.0**	**97.0**	**0.90**	**0.20 J**	**0.80**	**0.30 J**	**0.50 J**	**0.30 J**	**4.2**	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**7.8**	**0.50**	**2.5**	< 0.50	< 0.50	**20.0**
		2002 04 (Winter)	**130**	**95.0**	< 300	**110**	**335**	**1.4**	**0.60**	**4.7**	**2.3**	**1.5**	< 2.0	**8.3**	**1.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**7.4**	**0.90**	**5.4**	< 0.50	< 0.50	**12.0**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	**160**	**160**	**1.2**	**0.40 J**	**9.6**	**30.0**	**12.0**	**1.5 J**	**14.0**	**1.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**9.9**	**0.80**	**3.8**	< 0.50	< 0.50	**9.6**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	**90.0**	**90.0**	**0.90**	< 0.50	**0.50 J**	< 0.50	< 0.50	**0.50 J**	**11.0 J**	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**8.5 J**	**0.70**	**2.5**	< 0.50	< 0.50	**9.9**
	MW410-3	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	**1.1**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**1.6**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**120**	< 50.0	**450**	< 50.0	**570**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	**1.2**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**38.0 J**	< 50.0	< 300	< 50.0	**38.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.7**	**1.7**	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5**	**1.4**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	**37.0 J**	**37.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.1**	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	**350**	< 50.0	**350**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	**7.0**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.7**	**1.4**	< 1.0	**0.23 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290 UJ	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.40 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.6**	**1.2**	< 1.0	**0.36 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.86 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.2**	**1.5**	< 1.0	**0.28 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	**190 J**	< 50.0	**190**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	**1.7 J**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**4.0**	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.1**	**1.6**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**5.5**	**1.4**	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW410-4	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0 UJ	**55.0 J**	< 50.0	**55.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**58.0**	< 50.0	**160 J**	**38.0 J**	**256**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	**1.9 J**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.21 J**	< 0.50
		2003 03 (Fall)	< 200 UJ	< 290 UJ	< 200 UJ	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-3

Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW410-4	2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW530-2	2005 02 (Summer)	< 50.0	< 50.0	**250 J**	< 50.0	**250**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**310**	< 50.0	**120 J**	< 50.0	**430**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.9**	**0.10 J**	**0.30 J**	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 2.0	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	**3.5**	< 1.0	**0.23 J**	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	**55.0**	< 50.0 UJ	< 300	< 50.0	**55.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW530-3	2005 02 (Summer)	**340**	**140**	< 300	< 50.0	**480**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**150**	< 50.0	< 300	< 50.0	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	**240**	**150**	< 300	**21.0 J**	**411**	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW547-3	2005 02 (Summer)	**27.0 J**	**50.0**	< 300	**270**	**347**	**0.30 J**	< 0.50	**0.70**	**0.20 J**	**0.20 J**	**18.0**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50
		2005 01 (Spring)	**1,800**	**2,900**	**180 J**	**2,200**	**7,080**	**16.0**	**0.60 J**	**12.0**	**1.9**	**1.0 J**	**180**	**0.70 J**	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2004 04 (Winter)	**870**	**1,400**	**120 J**	**990**	**3,380**	**1.8**	**0.70**	**7.0**	< 0.70	**0.50 J**	**200**	**0.30 J**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 02 (Summer)	< 50.0	**110**	< 300	**240**	**350**	**0.50**	< 0.50	**0.60**	< 0.50	< 0.50	**9.4**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	**570**	**1,200**	< 190	**4,600**	**6,370**	**170**	**1.2**	**34.0**	**11.0**	**3.2**	**350**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50
		2003 04 (Winter)	**300**	**1,800**	< 190	**3,100**	**5,200**	**100**	**0.89 J**	**26.0 J**	**2.6 J**	**1.1 J**	**460**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.9 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50
		2003 03 (Fall)	**270**	**2,100**	< 190	**3,200**	**5,570**	**180**	< 1.0 UJ	**21.0 J**	**2.5 J**	**0.93 J**	**220**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50
		2003 02 (Summer)	**690**	**2,200**	< 190	**3,100**	**5,990**	**850**	**0.91 J**	**25.0 J**	**1.8 J**	**1.0 J**	**330**	< 5.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50
		2003 01 (Spring)	**180**	**1,300**	< 300	**5,100**	**6,580**	**1,300**	**1.3 J**	**34.0**	< 3.6	< 3.6	**370**	< 3.6	< 3.6	**2.4 J**	< 3.6	< 3.6	**2.6 J**	**1.9 J**	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
		2002 04 (Winter)	**110**	**1,100**	< 300	**3,400**	**4,610**	**690**	**1.0**	**34.0**	**1.5**	**0.70**	**380**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	**180**	**1,000**	< 300	**4,500**	**5,680**	**1,300**	**0.70 J**	**26.0**	**2.0 J**	< 3.6	**290**	< 3.6	< 3.6	**0.80 J**	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
		2002 02 (Summer)	**220**	**1,300**	< 300	**7,900**	**9,420**	**2,800**	< 8.3	**38.0**	**7.9 J**	< 8.3	**280**	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
	MWD13-3	2006 01 (Spring)	< 50.0	< 50.0	< 300	**36.0 J**	**36.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	**0.070 J**	< 0.50	**0.30 J**	**0.20 J**	< 0.50	**0.30 J**	< 0.50	**0.50**	< 0.50	**0.50**	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**74.0**	< 50.0	< 300	< 50.0	**74.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	**0.60**	< 0.50	**0.40 J**	< 0.50	**2.0**	< 0.50	**0.80**	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70**	< 0.50	**0.30 J**	< 0.50	**2.9**	< 0.50	**0.80**	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.40 J**	< 1.0	< 1.0	< 1.0	< 1.0	**0.33 J**	**0.48 J**	< 1.0	**0.61 J**	< 1.0	**1.9**	< 0.50	**1.7**	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.42 J**	< 1.0	< 1.0	< 1.0	< 1.0	**0.32 J**	**0.63 J**	< 1.0	**0.28 J**	< 1.0	**3.4**	< 0.50	**0.75 J**	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	**1.3**	< 0.50	**2.8**	< 0.50
		2002 02 (Summer)	**55.0**	< 50.0	**73.0 J**	< 50.0	**128**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	**0.60**	< 0.50	< 0.50 J	< 0.50	**2.9**	< 0.50	**1.4**	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 10-3

Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MWD13-4	2006 01 (Spring)	< 50.0	< 50.0	< 300	**28.0 J**	**28.0**	**0.070 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.80 J**	**0.20 J**	< 0.50	< 0.50	**0.10 J**	< 0.50	**12.0**	**1.5**	**0.20 J**	**1.2**	< 0.50	**3.7**	< 0.50	**2.9**	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**25.0 J**	**25.0**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	**20.0**	**4.2**	**0.30 J**	**4.2**	**0.20 J**	**8.0**	< 0.50	**2.4**	< 0.50
		2005 01 (Spring)	**190**	< 50.0	**230 J**	< 50.0	**420**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.50 J**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**8.0**	**1.5**	< 0.50	**1.7**	< 0.50	**4.9**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**160**	< 50.0	**220 J**	< 50.0	**380**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.8**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	**15.0**	**3.3**	**0.40 J**	**3.5**	< 0.50	**7.5**	< 0.50	**1.5**	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**1.8 J**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	**14.0**	**2.8**	**0.30 J**	**2.9**	**0.10 J**	**6.3**	< 0.50	**1.3**	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	**0.86 J**	**0.29 J**	< 1.0	< 1.0	< 1.0	< 1.0	**9.5**	**1.5**	< 1.0	**1.1**	< 1.0	**4.2**	< 0.50	**2.3**	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	**0.20 J**	< 1.0	< 1.0	< 1.0	< 1.0	**2.3 J**	**0.53 J**	< 1.0	< 1.0	< 1.0	< 1.0	**24.0**	**3.4**	**0.40 J**	**2.4**	< 1.0	**7.5**	< 0.50	**3.6**	< 0.50
		2003 03 (Fall)	< 190	< 280	< 190	< 50.0	< 280	**0.22 J**	< 1.0	< 1.0	< 1.0	< 1.0	**2.2**	**0.26 J**	< 1.0	< 1.0	< 1.0	< 1.0	**14.0**	**3.0**	**0.36 J**	**3.1**	< 1.0	**8.3**	< 0.50	**2.3**	< 0.50
		2003 02 (Summer)	< 200	< 290	< 200	< 50.0	< 290	**0.21 J**	< 1.0	< 1.0	< 1.0	< 1.0	**2.1**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**17.0**	**3.2**	**0.36 J**	**3.3**	< 1.0	**8.3**	< 0.50	**2.7**	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.3 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**12.0**	**2.6**	**0.20 J**	**2.2**	< 0.50	**6.0**	< 0.50	**2.3**	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	**18.0 J**	**18.0**	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.7	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17.0 J**	**3.6**	**0.30 J**	**2.6**	< 0.50	**7.6**	< 0.50	**0.80**	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	**34.0 J**	**34.0**	**0.20 J**	< 0.50	**0.10 J**	**0.40 J**	**0.10 J**	**2.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**22.0**	**4.2**	**0.40 J**	**3.2**	< 0.50 J	**9.8**	< 0.50	**2.6**	< 0.50
		2002 02 (Summer)	**150**	< 50.0	**210 J**	< 50.0	**360**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**1.8 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**18.0**	**3.3**	**0.40 J**	**3.4**	< 0.50	**9.0**	< 0.50	**3.2**	< 0.50
	MWOR-4	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	-	< 300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	D07C-01	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	**25.0 J**	**25.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**22.0 J**	< 50.0	< 300	< 50.0	**22.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 200	< 300	< 200	< 50.0	< 300	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D09-01	2006 01 (Spring)	< 50.0	< 50.0	**43.0 J**	< 50.0	**43.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**12,000**	< 250	**52,000**	< 50.0	**64,000**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**33.0 J**	< 50.0	< 300	< 50.0	**33.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 10-3

Groundwater Sample Analytical Results at IR Site 9 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds								Commonly Detected Chlorinated Hydrocarbons										
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
	Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
	MCL:		NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
	BV:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	**Event**	**AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SWBZ	D09-01	2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.30 J**	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D10B-02	2006 01 (Spring)	**37.0 J**	< 50.0	**97.0 J**	< 50.0	**134**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**27.0 J**	< 50.0	< 300	< 50.0	**27.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0 UJ	**65.0 J**	< 50.0	**65.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D13-01	2006 01 (Spring)	**46.0 J**	**51.0**	**230 J**	< 50.0	**327**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	**0.32 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D19-01	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	**0.60**	< 0.50	**0.30 J**	< 0.50	**1.6**	< 0.50	**0.60**	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**24.0 J**	**24.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Table 10-4

Groundwater Sample Analytical Results at IR Site 9 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M07C-06	2005 02 (Summer)	0.39 J	**88.0**	**530**	< 2.0	< 5.0	1.1 J	3.1	1.5 J	< 3.0	**7,200**	< 0.20	2.4 J	4.4 J	1.0 J	< 5.0	< 5.0	0.77 J	**21.0**	< 100	**23,000**	190	56.0	< 5.0	51.0
		2004 04 (Winter)	0.77 J	**10.0**	80.0	< 2.0	< 5.0	0.49 J	0.92 J	0.81 J	0.049 J	670	< 0.20	1.4 J	2.5 J	< 5.0	< 5.0	< 5.0	1.3 J	**41.0**	< 100	830	29.0 J	6.3	1.4 J	8.8
		2004 02 (Summer)	0.23 J	**100**	**440**	< 1.0	< 1.0	0.56 J	2.5	1.1	0.10 J	**6,700**	< 0.20	2.8 J	5.1	1.0	< 1.0	< 1.0	0.77 J	**13.0**	< 50.0	**21,000**	230	71.0	5.1	74.0
		2003 04 (Winter)	< 5.0 UJ	**87.0**	**558**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**8,040**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**26,200**	235	72.6	4.1	68.9
		2003 02 (Summer)	< 50.0	**112**	**670**	< 4.0	< 5.0	< 10.0	3.0 J	< 10.0	< 10.0	**8,050**	< 0.40 UJ	< 50.0	4.6 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**26,100**	243	76.4	6.1 J	83.0
		2002 04 (Winter)	0.17 J	**96.0**	**530**	< 2.0	< 5.0	< 10.0	2.1 J	0.61 J	< 3.0	**7,800**	< 0.20	2.4 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	7.2 J	**22,000**	230	69.0	4.5	71.0
		2002 02 (Summer)	0.24 J	**12.0**	**500**	< 2.0	0.26 J	1.5 J	3.1 J	0.71 J	0.17 J	**6,000**	< 0.20	< 20.0	6.1 J	0.90 J	< 5.0	< 2.0	4.4 J	**18.0 J**	< 100	**2,000**	190	52.0	4.6	47.0
	M07C-08	2006 01 (Spring)	1.8	2.9 J	-	< 2.0	< 5.0	< 10.0	-	**10.0**	0.20 J	-	< 0.20	-	**11.0 J**	< 5.0	< 5.0	< 5.0	-	**19.0 J**	-	-	-	-	-	-	-
		2005 02 (Summer)	1.9	4.8 J	90.0	< 2.0	< 5.0	1.3 J	1.4	7.0 J	0.46 J	340	< 0.20	4.1 J	**23.0**	0.47 J	< 5.0	< 5.0	2.7 J	**19.0 J**	15.0 J	370	59.0	7.8 J	13.0	17.0
		2004 04 (Winter)	2.2	3.1 J	110	< 2.0	< 5.0	0.72 J	0.44 J	**12.0**	0.29 J	110	< 0.20	4.3 J	**21.0**	< 5.0	< 5.0	< 5.0	5.5 J	**11.0 J**	< 100	< 100	59.0 J	10.0	10.0 J	21.0
		2004 02 (Summer)	3.6	4.3	97.0	< 1.0	0.26 J	0.46 J	1.1	**18.0**	0.17 J	230	< 0.20	4.6 J	**32.0**	< 1.0	< 1.0	< 1.0	8.4	**14.0**	8.8 J	< 100	51.0 J	7.1	11.0	15.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	92.4 J	< 4.0	< 5.0	< 10.0	< 10.0	**10.7**	< 10.0 UJ	32.4	< 0.40	< 50.0	**16.8 J**	< 20.0	< 10.0	< 5.0 UJ	**11.4 J**	**10.7 J**	< 200	< 100	58.1	10.7	9.1	25.5
		2003 02 (Summer)	< 50.0	< 50.0	72.3 J	< 4.0	< 5.0	< 10.0	< 10.0	5.5 J	< 10.0	6.4 J	< 0.40 UJ	< 50.0	**9.3 J**	< 20.0	< 10.0	< 5.0	8.1 J	< 20.0	< 200	< 100	41.4	5.5	7.1 J	12.9
		2002 04 (Winter)	3.2 J	5.9	72.0	< 2.0	< 5.0	1.7 J	0.34 J	**38.0**	< 3.0	2.1 J	**0.15 J**	3.4 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	**8.6 J**	4.9 J	**110**	300	40.0	4.9	8.9	13.0
		2002 02 (Summer)	< 60.0	**8.2**	**180**	< 2.0	0.78 J	< 10.0	< 20.0	**12.0**	< 3.0	140	< 0.20	**6.7 J**	**21.0**	< 5.0	< 5.0	< 5.0	7.7 J	**12.0 J**	4.9 J	46.0 J	87.0	13.0	16.0	32.0
	M07C-09	2005 02 (Summer)	0.43 J	**8.7**	80.0	< 2.0	< 5.0	1.0 J	0.91 J	5.1 J	< 3.0	**2,000**	< 0.20	4.4 J	7.3 J	0.54 J	< 5.0	< 5.0	5.8 J	5.8 J	< 100	360	65.0	36.0	14.0	45.0
		2004 04 (Winter)	0.43 J	6.9	56.0	< 2.0	< 5.0	0.45 J	0.91 J	3.5 J	0.18 J	960	< 0.20	2.7 J	6.9 J	< 5.0	< 5.0	< 5.0	6.5 J	4.5 J	< 100	< 100	45.0 J	28.0	9.6 J	57.0
		2004 02 (Summer)	2.8	7.3	66.0	< 1.0	< 1.0	0.58 J	1.3	2.5	0.058 J	**1,400**	< 0.20	3.1 J	**7.6**	< 1.0	< 1.0	< 1.0	4.6	**16.0**	< 50.0	< 100	49.0	32.0	8.6	52.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	58.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**1,540**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	< 100	47.2	29.6	9.3	63.9
		2003 02 (Summer)	< 50.0	6.5 J	90.2 J	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	< 10.0	**2,030**	< 0.40 UJ	< 50.0	**7.8 J**	< 20.0	< 10.0	< 5.0	5.7 J	< 20.0	< 200	< 100	65.0	36.4	15.3 J	61.1
		2002 04 (Winter)	0.097 J	5.7	45.0	< 2.0	< 5.0	< 10.0	1.2 J	2.9 J	< 3.0	**1,200**	< 0.20	3.3 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	6.3 J	< 20.0	4.6 J	< 140	34.0	23.0	7.2	91.0
		2002 02 (Summer)	< 50.0	5.5	72.0	< 2.0	< 5.0	2.3 J	< 10.0	4.0 J	< 3.0	**1,200**	< 0.20	< 20.0	**7.7 J**	0.36 J	< 5.0	< 2.0	**11.0**	2.0 J	< 100	120	54.0	31.0	9.3	65.0
	M10B-01	2005 02 (Summer)	0.42 J	6.3	47.0	< 2.0	< 5.0	1.8 J	< 1.0	< 10.0	< 3.0	230 J	< 0.20	< 20.0	1.7 J	0.68 J	< 5.0	0.49 J	4.2 J	6.0 J	< 100	990	38.0	31.0	26.0	260
		2004 04 (Winter)	1.3	**8.7**	36.0	< 2.0	< 5.0	< 10.0	0.27 J	1.4 J	0.079 J	220	< 0.20	3.0 J	< 20.0	1.3 J	< 5.0	< 5.0	3.7 J	5.9 J	< 100	1,300	36.0	35.0	30.0	440
		2004 02 (Summer)	< 1.0	**9.4**	45.0	< 1.0	< 1.0	0.60 J	0.35 J	4.5	0.25 J	370	< 0.20	3.0 J	< 20.0	1.2	< 1.0	< 1.0	3.1	**40.0**	4.3 J	**2,000**	42.0 J	48.0	35.0	670
		2003 04 (Winter)	< 5.0 UJ	< 50.0	26.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	270	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	7.1 J	< 20.0	< 200	**1,780**	30.4	33.8	27.3	590
		2003 02 (Summer)	< 50.0	**12.7 J**	42.9 J	< 4.0	< 5.0	< 10.0	< 10.0	1.5 J	< 10.0	547	< 0.40 UJ	< 50.0	1.3 J	< 20.0	< 10.0	< 5.0	**14.4 J**	< 20.0	< 200	**3,670**	49.4	53.0	28.5 J	690
		2002 04 (Winter)	< 50.0	**17.0**	44.0	< 2.0	0.066 J	0.75 J	0.40 J	1.6 J	< 3.0	380	< 0.20	2.5 J	< 20.0 UJ	0.49 J	0.019 J	< 2.0	**30.0**	< 20.0	63.0 J	970	52.0	53.0	30.0	730
		2002 02 (Summer)	0.22 J	**9.0**	66.0	< 2.0	< 5.0	**8.0 J**	0.42 J	2.0 J	0.31 J	350	**1.7**	4.4 J	1.9 J	**3.2 J**	< 5.0	< 2.0	**9.7 J**	9.1 J	38.0 J	1,100	62.0	56.0	32.0	690
	M13-06	2006 01 (Spring)	< 1.0	0.98 J	-	< 2.0	< 5.0	< 10.0	-	2.3 J	< 3.0	-	< 0.20	-	1.1 J	< 5.0	< 5.0	< 5.0	-	2.1 J	-	-	-	-	-	-
		2005 02 (Summer)	0.13 J	7.0	52.0	< 2.0	< 5.0	1.2 J	< 1.0	< 10.0	0.30 J	460 J	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 5.0	2.0 J	**14.0 J**	< 100	440	54.0	18.0	8.7	28.0
		2004 04 (Winter)	1.4	6.2	49.0	< 2.0	< 5.0	< 10.0	0.16 J	1.3 J	0.050 J	290	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 5.0	1.5 J	6.7 J	< 100	84.0 J	63.0	19.0	9.0	34.0
		2004 02 (Summer)	0.64 J	7.1	56.0	< 1.0	< 1.0	0.45 J	0.24 J	2.3	0.077 J	560	< 0.20	< 5.0	1.4	< 1.0	< 1.0	< 1.0	1.2	**25.0**	< 50.0	130	65.0	22.0	9.6	30.0
		2003 04 (Winter)	< 5.0	**8.8 J**	42.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	501 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	171	56.5	18.8	8.9	37.2
		2003 02 (Summer)	< 50.0	**8.4 J**	44.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	433 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	5.5 J	< 200	89.0 J	66.5 J	13.8 J	8.1 J	35.1 J
		2002 04 (Winter)	0.22 J	2.1 J	58.0	< 2.0	< 5.0	0.62 J	0.14 J	2.2 J	< 3.0	42.0	< 0.20	2.9 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	2.1 J	0.84 J	8.1 J	220	50.0	14.0	7.1	36.0
		2002 02 (Summer)	0.15 J	6.0	49.0	< 2.0	< 5.0	2.7 J	0.29 J	1.4 J	0.13 J	310	0.052 J	< 20.0	1.6 J	< 5.0	0.037 J	< 2.0	2.3 J	8.4 J	< 100	140	60.0	17.0	7.7	55.0
	M13-07	2006 01 (Spring)	0.61 J	0.79 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	1.2 J	< 5.0	< 5.0	< 5.0	-	**12.0 J**	-	-	-	-	-	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

ITSI Innovative Technical Solutions, Inc.

Table 10-4

Groundwater Sample Analytical Results at IR Site 9 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M13-07	2005 02 (Summer)	0.32 J	**25.0**	120	< 2.0	< 5.0	**7.8 J**	0.67 J	0.92 J	< 3.0	**3,100**	< 0.20	1.1 J	**23.0**	1.1 J	< 5.0	< 5.0	0.98 J	4.7 J	4.2 J	**21,000**	110	24.0	< 5.0	65.0
		2004 04 (Winter)	< 1.0	**32.0**	**140**	< 2.0	< 5.0	1.5 J	0.46 J	1.1 J	0.22 J	**3,400**	< 0.20	0.73 J	< 20.0	**3.5 J**	< 5.0	< 5.0	1.7 J	**11.0 J**	< 100	**25,000**	120	32.0	6.1	120
		2004 02 (Summer)	2.3	**18.0**	95.0	< 1.0	< 1.0	0.76 J	0.28 J	0.50 J	< 1.0	**1,600**	< 0.20	< 5.0	0.87 J	0.72 J	< 1.0	< 1.0	1.0	4.3	< 50.0	**14,000**	92.0	20.0	6.7	68.0
		2003 04 (Winter)	< 5.0	**49.1 J**	**156**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**5,550 J**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 29.3	< 200	**42,600**	154	40.4	5.7	131
		2003 02 (Summer)	< 50.0	**27.4 J**	60.5 J	< 4.0	< 5.0	< 10.0	< 10.0	4.3 J	< 10.0	934 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	1.8 J	2.9 J	**187 J**	**9,650**	73.7 J	14.6 J	6.0 J	40.5 J
		2002 04 (Winter)	0.17 J	**41.0**	**160**	< 2.0	< 5.0	0.53 J	0.48 J	**21.0**	< 3.0	**4,200**	< 0.20	0.48 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	0.33 J	**15.0 J**	12.0 J	**36,000**	110	30.0	4.5	130
		2002 02 (Summer)	0.18 J	**50.0**	**190**	0.14 J	< 5.0	**7.2 J**	0.50 J	2.2 J	0.54 J	**5,200**	< 0.20	< 20.0	2.0 J	1.1 J	0.089 J	< 2.0	3.4 J	1.8 J	66.0 J	**35,000**	120	30.0	4.5	120
	M13-08	2006 01 (Spring)	< 1.0	0.70 J	-	< 2.0	< 5.0	< 10.0	-	2.9 J	< 3.0	-	< 0.20	-	5.5 J	< 5.0	< 5.0	< 5.0	-	5.8 J	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	< 5.0	34.0	< 2.0	< 5.0	< 10.0	0.64 J	1.5 J	< 3.0	650	< 0.20	0.075 J	4.8 J	< 5.0	< 5.0	< 5.0	4.3 J	8.3 J	11.0 J	66.0 J	13.0	14.0	0.55	110
		2004 04 (Winter)	0.25 J	< 5.0	32.0	< 2.0	< 5.0	0.40 J	0.53 J	2.6 J	< 3.0	370	< 0.20	0.44 J	5.4 J	< 5.0	< 5.0	< 5.0	4.3 J	5.4 J	< 100	74.0 J	13.0 J	13.0	1.1 J	100
		2004 02 (Summer)	2.1	1.6	33.0	< 1.0	< 1.0	0.75 J	0.50 J	2.6	0.066 J	250	0.047 J	< 5.0	5.4	< 1.0	< 1.0	< 1.0	4.5	9.5	< 50.0	110	14.0	14.0	< 0.50	100
		2003 04 (Winter)	< 5.0	< 50.0	35.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	90.7 J	< 0.40	< 50.0	< 20.0	< 20.0	**5.1 J**	< 5.0 UJ	6.1 J	< 20.0	< 200	< 100	15.1	15.1	< 2.2	120
		2003 02 (Summer)	< 50.0	< 50.0	42.2 J	< 4.0	< 5.0	< 10.0	< 10.0	1.6 J	< 10.0	599 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	4.4 J	3.2 J	< 200	< 100	16.1 J	16.6 J	0.81 J	106 J
		2002 04 (Winter)	< 50.0	0.58 J	37.0	< 2.0	< 5.0	< 10.0	0.42 J	2.4 J	< 3.0	150	< 0.20	0.41 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	3.7 J	2.8 J	9.6 J	< 100	14.0	14.0	0.68	110
		2002 02 (Summer)	0.051 J	< 5.0	42.0 J	< 2.0	< 5.0	< 10.0	0.42 J	2.3 J	0.81 J	140 J	< 0.20	0.42 J	4.0 J	< 5.0	< 5.0	< 2.0	7.0 J	**17.0 J**	< 100	7.4 J	16.0	17.0 J	0.75	120
	M13-09	2006 01 (Spring)	0.82 J	2.9 J	-	< 2.0	0.32 J	< 10.0	-	1.0 J	< 3.0	-	< 0.20	-	2.2 J	< 5.0	< 5.0	< 5.0	-	6.3 J	-	-	-	-	-	-
		2005 02 (Summer)	0.81 J	3.9 J	**160**	< 2.0	< 5.0	0.91 J	1.4	2.6 J	< 3.0	**1,900**	< 0.20	0.65 J	4.6 J	0.90 J	< 5.0	< 5.0	1.5 J	9.0 J	< 100	**4,100**	76.0	24.0	3.5	31.0
		2004 04 (Winter)	0.56 J	6.2	**140**	< 2.0	< 5.0	0.52 J	2.0	1.1 J	< 3.0	**3,500**	< 0.20	0.56 J	4.6 J	< 5.0	< 5.0	< 5.0	0.90 J	7.2 J	< 100	**14,000**	75.0 J	25.0	2.8 J	36.0
		2004 02 (Summer)	1.5	3.3	**160**	< 1.0	< 1.0	0.49 J	1.3	1.1	0.090 J	**2,400**	< 0.20	< 5.0	4.2	0.81 J	< 1.0	< 1.0	1.2	**18.0**	< 50.0	**4,400**	80.0	25.0	3.0	36.0
		2003 04 (Winter)	< 5.0	< 50.0	**137**	< 4.0	**2.3 J**	< 10.0	< 10.0	< 10.0	< 10.0	**4,890 J**	**0.21 J**	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	**10,900**	77.0	25.6	< 2.4	37.8
		2003 02 (Summer)	< 50.0	< 50.0	**175**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	1,060 J	< 0.40	< 50.0	< 20.0	**3.9 J**	< 10.0	< 5.0	1.7 J	8.3 J	< 200	**2,070**	79.7 J	25.4 J	3.6 J	33.5 J
		2002 04 (Winter)	0.24 J	0.21 J	120	< 2.0	< 5.0	< 10.0	0.94 J	1.1 J	< 3.0	**2,800**	< 0.20	0.66 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	6.0 J	24.0 J	650	73.0	25.0	2.4	36.0
		2002 02 (Summer)	< 50.0	< 5.0	120	< 2.0	0.065 J	2.3 J	< 10.0	0.85 J	< 3.0	**1,400**	< 0.20	< 20.0	4.1 J	0.68 J	< 5.0	< 2.0	1.5 J	**14.0 J**	< 100	420	78.0	23.0	2.6	34.0
	MW-001	2005 02 (Summer)	0.23 J	4.8 J	**190**	< 2.0	< 5.0	2.1 J	< 1.0	< 10.0	< 3.0	**1,700 J**	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	1.8 J	10.0 J	< 100	**26,000**	43.0	30.0	19.0	25.0
		2004 04 (Winter)	1.6	**17.0**	**160**	< 2.0	< 5.0	1.5 J	1.1	0.54 J	0.40 J	**2,100**	< 0.20	5.0 J	**16.0 J**	< 5.0	< 5.0	< 5.0	2.5 J	5.2 J	< 100	**31,000**	61.0 J	33.0	19.0 J	44.0
		2004 02 (Summer)	1.8	3.1	**130**	< 1.0	< 1.0	0.93 J	0.22 J	1.0	0.080 J	**1,900**	< 0.20	0.57 J	< 20.0	< 1.0	< 1.0	< 1.0	< 1.1	3.7	5.1 J	**25,000**	51.0 J	31.0	22.0	29.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	120	< 4.0	< 5.0	< 10.0	**10.4**	< 10.0	< 10.0 UJ	**1,640**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	**32.3**	< 200	**14,800**	46.1	28.1	17.2	36.6
		2003 02 (Summer)	< 50.0	**18.8 J**	**288**	< 4.0	< 5.0	< 10.0	1.5 J	< 10.0	< 10.0	**1,980**	< 0.40 UJ	**10.6 J**	**24.5**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**21,400**	59.2	38.1	28.5 J	35.1
		2002 04 (Winter)	0.54 J	**9.7**	100	< 2.0	< 5.0	1.2 J	**27.0**	4.6 J	**6.7**	**3,700**	< 0.20	1.5 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	1.3 J	**25.0 J**	**97.0 J**	**60,000**	92.0	49.0	29.0	54.0
		2002 02 (Summer)	0.44 J	**11.0**	**140**	< 2.0	< 5.0	3.1 J	0.61 J	0.57 J	0.52 J	920	< 0.20	< 20.0	2.9 J	< 5.0	< 5.0	< 2.0	2.2 J	0.89 J	**110**	**8,700**	41.0	26.0	16.0	45.0
	MW410-1	2006 01 (Spring)	< 1.0	6.1	-	< 2.0	< 5.0	**15.0**	-	< 10.0	< 3.0	-	< 0.20	-	3.7 J	< 5.0	< 5.0	< 5.0	-	2.7 J	-	-	-	-	-	-
		2005 02 (Summer)	0.45 J	**8.7**	62.0	< 2.0	< 5.0	**4.2 J**	< 1.0	< 10.0	< 3.0	110 J	< 0.20	< 20.0	1.1 J	< 5.0	< 5.0	< 5.0	5.3 J	2.9 J	< 100	< 100	19.0	11.0	20.0	160
		2004 04 (Winter)	< 1.0	**8.5**	62.0	< 2.0	< 5.0	2.7 J	0.074 J	0.89 J	< 3.0	110	< 0.20	1.5 J	< 20.0	< 5.0	< 5.0	< 5.0	3.1 J	4.2 J	< 100	41.0 J	23.0	12.0	21.0	250
		2004 02 (Summer)	0.11 J	7.4	73.0	< 1.0	< 1.0	2.5	0.089 J	0.54 J	0.50 J	150	< 0.20	1.7 J	< 20.0	< 1.0	< 1.0	< 1.0	3.6	< 1.0	2.9 J	97.0 J	28.0 J	14.0	23.0	240
		2003 04 (Winter)	< 5.0	**8.2 J**	101	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	183	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	9.9 J	< 200	185	25.9	14.9	22.3	291
		2003 02 (Summer)	< 50.0	**10.7 J**	83.5 J	< 4.0	< 5.0	**4.8 J**	< 10.0	< 10.0	< 10.0	179 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	4.2 J	< 20.0	< 200	99.9 J	37.0 J	17.4 J	19.6 J	238 J
		2002 04 (Winter)	< 50.0	**8.4**	56.0	< 2.0	0.055 J	0.51 J	0.11 J	0.60 J	< 3.0	180	< 0.20	1.7 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.6	< 10.0	**89.0 J**	< 100	< 200	21.0	13.0	18.0	270
		2002 02 (Summer)	0.12 J	**8.5**	61.0	< 2.0	< 5.0	**4.3 J**	0.12 J	1.0 J	0.043 J	160	< 0.20	< 20.0	0.76 J	0.85 J	< 5.0	< 2.0	3.8 J	2.7 J	< 100	140	29.0	12.0	18.0	180

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 10-4

Groundwater Sample Analytical Results at IR Site 9 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	MW410-2	2006 01 (Spring)	0.52 J	3.1 J	-	< 2.0	< 5.0	2.3 J	-	5.4 J	0.23 J	-	< 0.20	-	3.4 J	< 5.0	< 5.0	< 5.0	-	7.2 J	-	-	-	-	-	-
		2005 02 (Summer)	0.20 J	**13.0**	**160**	< 2.0	< 5.0	1.8 J	0.37 J	< 10.0	< 3.0	190 J	< 0.20	< 20.0	**7.6 J**	0.62 J	< 5.0	< 5.0	2.4 J	6.9 J	< 100	670	38.0	19.0	18.0	66.0
		2004 02 (Summer)	0.12 J	**31.0**	**170**	< 1.0	< 1.0	0.21 J	0.54 J	0.59 J	0.30 J	690	< 0.20	0.94 J	< 20.0	< 1.0	< 1.0	< 1.0	< 1.0	5.2	3.6 J	1,500	61.0 J	32.0	19.0	74.0
		2003 04 (Winter)	< 5.0	**44.5 J**	**196**	< 4.0	< 5.0	< 10.0	**6.0 J**	< 10.0	< 10.0	919	< 0.40	< 50.0	**25.7**	< 20.0	< 10.0	< 5.0	< 50.0	7.2 J	< 200	**2,860**	69.0	35.8	20.6	108
		2003 02 (Summer)	< 50.0	**35.4 J**	**246**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	966 J	< 0.40	< 50.0	**21.2**	< 20.0	< 10.0	< 5.0	< 50.0	3.1 J	< 200	**3,440**	79.8 J	42.5 J	27.1 J	124 J
		2002 04 (Winter)	< 50.0	**37.0**	**290**	< 2.0	0.073 J	0.80 J	2.3 J	0.59 J	< 3.0	**1,300**	< 0.20	0.49 J	**16.0 J**	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**4,400**	90.0	49.0	23.0	190
		2002 02 (Summer)	0.12 J	**28.0**	**270**	< 2.0	< 5.0	**7.5 J**	1.7 J	1.0 J	1.1 J	930	< 0.20	< 20.0	**31.0**	< 5.0	< 5.0	< 2.0	2.6 J	1.4 J	< 100	**2,500**	90.0	45.0	19.0	150
	MW410-3	2006 01 (Spring)	< 1.0	1.1 J	-	< 2.0	< 5.0	1.3 J	-	1.8 J	< 3.0	-	< 0.20	-	1.3 J	< 5.0	< 5.0	**3.0 J**	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.29 J	2.3 J	120	< 2.0	< 5.0	1.6 J	< 1.0	< 10.0	< 3.0	24.0 J	< 0.20	5.1 J	2.5 J	1.0 J	< 5.0	< 5.0	5.3 J	5.5 J	< 100	220	32.0	15.0	19.0	40.0
		2004 04 (Winter)	0.45 J	1.2 J	**130**	< 2.0	< 5.0	0.65 J	0.13 J	1.0 J	< 3.0	26.0	< 0.20	3.9 J	1.9 J	< 5.0	< 5.0	< 5.0	4.4 J	4.3 J	< 100	< 100	42.0 J	13.0	19.0 J	34.0
		2004 02 (Summer)	0.079 J	1.5	**140**	< 1.0	< 1.0	0.57 J	0.12 J	0.88 J	0.14 J	34.0	< 0.20	4.3 J	2.1	0.85 J	< 1.0	< 1.0	4.2	2.6	< 50.0	< 100	46.0	20.0	21.0	30.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**171**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	36.6	-	< 50.0	< 20.0	< 20.0	< 10.0	-	**8.5 J**	< 20.0	< 200	< 100	57.9	24.2	23.0	28.6
		2003 02 (Summer)	< 50.0	< 50.0	**156**	< 4.0	< 5.0	1.7 J	< 10.0	< 10.0	< 10.0	47.0 J	< 0.40	**6.3 J**	< 20.0	< 20.0	< 10.0	< 5.0	4.0 J	< 20.0	< 200	< 100	54.4 J	23.5 J	20.8 J	35.8 J
		2002 04 (Winter)	< 50.0	0.77 J	120	< 2.0	0.074 J	0.76 J	0.12 J	0.85 J	< 3.0	43.0	< 0.20	5.2 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	2.8 J	1.6 J	< 100	< 140	44.0	19.0	18.0	26.0
		2002 02 (Summer)	0.090 J	1.4 J	**150**	< 2.0	0.22 J	2.2 J	0.17 J	2.9 J	0.51 J	110	< 0.20	4.2 J	4.8 J	0.45 J	< 5.0	< 2.0	4.1 J	5.5 J	5.7 J	110	54.0	22.0	21.0	30.0
	MW410-4	2006 01 (Spring)	< 1.0	5.6	-	< 2.0	< 5.0	**6.0 J**	-	1.4 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	< 5.0	-	2.3 J	-	-	-	-	-	-
		2005 02 (Summer)	0.13 J	6.6	49.0	< 2.0	< 5.0	**5.8 J**	< 1.0	< 10.0	< 3.0	< 10.0	< 0.20	< 20.0	0.58 J	0.73 J	< 5.0	0.095 J	**10.0**	2.7 J	< 100	< 100	23.0	7.4	9.7	31.0
		2004 04 (Winter)	< 1.0	7.0	42.0	< 2.0	< 5.0	3.0 J	< 1.0	0.65 J	0.14 J	< 10.0	< 0.20	0.77 J	< 20.0	< 5.0	< 5.0	< 5.0	**9.6 J**	2.3 J	< 100	< 100	25.0	6.6	7.9	35.0
		2004 02 (Summer)	0.067 J	4.9	31.0	< 1.0	< 1.0	2.2	< 1.0	0.53 J	0.16 J	< 10.0	0.048 J	< 5.0	0.73 J	0.62 J	< 1.0	< 1.0	7.3	2.6	< 50.0	< 100	18.0	4.7	6.2	20.0
		2003 04 (Winter)	< 5.0	4.8 J	37.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	**10.7 J**	< 20.0	< 200	< 100	22.7	5.9	8.0	38.0
		2003 02 (Summer)	< 50.0	< 50.0	48.3 J	< 4.0	< 5.0	**4.7 J**	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	**10.6 J**	4.2 J	< 200	< 100	24.1 J	6.5 J	9.6 J	45.6 J
		2002 04 (Winter)	< 50.0	2.4 J	56.0	< 2.0	< 5.0	3.1 J	0.033 J	0.45 J	< 3.0	< 10.0	< 0.20	0.85 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	4.8 J	1.8 J	< 100	< 100	29.0	7.4	12.0	65.0
		2002 02 (Summer)	0.10 J	3.7 J	62.0	< 2.0	< 5.0	**7.1 J**	0.033 J	0.48 J	0.029 J	< 10.0	< 0.20	< 20.0	0.47 J	0.50 J	< 5.0	< 2.0	7.2 J	< 20.0	< 100	54.0 J	29.0	7.5	12.0	64.0
	MW530-2	2005 02 (Summer)	0.47 J	**12.0**	44.0	< 2.0	< 5.0	1.8 J	0.40 J	2.1 J	< 3.0	47.0	< 0.20	**11.0 J**	5.3 J	**6.9**	< 5.0	< 5.0	**10.0**	3.9 J	2.9 J	120	19.0	12.0	18.0	320
		2004 04 (Winter)	0.74 J	**12.0**	**190**	< 2.0	< 5.0	0.86 J	1.7	2.4 J	0.21 J	1,100	< 0.20	**6.1 J**	< 20.0	1.6 J	< 5.0	< 5.0	6.5 J	**16.0 J**	< 100	1,100	49.0	100	55.0	1,700
		2004 02 (Summer)	0.19 J	**11.0**	51.0	< 1.0	< 1.0	0.92 J	3.2	3.4	0.50 J	270	< 0.20	**11.0**	**22.0**	**2.7**	< 1.0	< 1.0	6.9	**12.0**	< 50.0	91.0 J	17.0	23.0	24.0	610
		2003 04 (Winter)	< 5.0	**8.1 J**	**155**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	811	< 0.40	< 50.0	**28.5**	< 20.0	< 10.0	< 25.0	**8.7 J**	< 20.0	< 200	926	46.6	75.9	47.8	1,390
		2003 02 (Summer)	< 50.0	**11.1 J**	54.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	128 J	< 0.40	**5.9 J**	**17.3 J**	< 20.0	< 10.0	< 5.0	2.5 J	1.5 J	< 200	82.5 J	22.7 J	16.3 J	14.4 J	339 J
		2002 04 (Winter)	< 50.0	**8.2**	50.0	< 2.0	< 5.0	< 10.0	0.31 J	0.61 J	< 3.0	61.0	**0.12 J**	3.1 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	3.1 J	< 100	< 100	20.0	12.0	15.0	270
		2002 02 (Summer)	0.20 J	**9.4**	57.0	< 2.0	< 5.0	1.7 J	0.30 J	0.92 J	0.075 J	54.0	< 0.20	< 20.0	2.0 J	0.76 J	< 5.0	< 2.0	6.3 J	< 20.0	< 100	64.0 J	29.0	13.0	14.0	180
	MW530-3	2005 02 (Summer)	0.081 J	4.6 J	88.0	< 2.0	< 5.0	0.95 J	0.30 J	< 10.0	< 3.0	230 J	< 0.20	< 20.0	1.1 J	< 5.0	< 5.0	< 5.0	2.4 J	7.4 J	< 100	420	67.0	12.0	9.8	21.0
		2004 04 (Winter)	0.70 J	3.7 J	81.0	< 2.0	0.25 J	0.39 J	0.19 J	2.4 J	0.049 J	180	< 0.20	2.0 J	1.1 J	< 5.0	< 5.0	< 5.0	3.8 J	8.9 J	< 100	440	90.0 J	11.0	9.6 J	31.0
		2004 02 (Summer)	0.24 J	**9.5**	110	< 1.0	0.37 J	< 1.0	0.11 J	4.6	0.33 J	44.0	< 0.20	**6.3**	< 20.0	< 1.0	< 1.0	< 1.0	6.8	4.3	9.2 J	< 100	74.0 J	20.0	15.0	110
		2003 04 (Winter)	< 5.0 UJ	< 50.0	15.7 J	< 4.0	< 5.0	< 10.0	< 10.0	**8.1 J**	< 10.0 UJ	14.5	-	< 50.0	< 20.0	< 20.0	< 10.0	-	**11.6 J**	< 20.4	< 200	< 100	13.2	1.3	< 1.8	< 6.7
		2003 02 (Summer)	< 50.0	**13.2 J**	27.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	123	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	66.1 J	40.1	6.3	5.3 J	23.7
		2002 04 (Winter)	< 50.0	**16.0**	47.0	< 2.0	0.19 J	< 10.0	0.11 J	0.84 J	< 3.0	290	< 0.20	2.1 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	**33.0 J**	< 100	420	76.0	6.2	5.9	30.0
		2002 02 (Summer)	< 50.0	**18.0**	45.0	< 2.0	< 5.0	1.7 J	0.090 J	0.31 J	< 3.0	170	< 0.20	< 20.0	0.42 J	< 5.0	< 5.0	< 2.0	0.93 J	1.7 J	< 100	220	75.0	6.4	5.7	22.0
	MW547-3	2005 02 (Summer)	1.4	**14.0**	**220**	< 2.0	< 5.0	0.93 J	1.8	2.4 J	0.30 J	**3,400**	< 0.20	**6.3 J**	**7.6 J**	0.99 J	< 5.0	< 5.0	3.7 J	9.3 J	3.0 J	**1,800**	49.0	44.0	21.0	220

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 10-4

Groundwater Sample Analytical Results at IR Site 9 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	MW547-3	2004 04 (Winter)	1.4	**20.0**	**330**	< 2.0	< 5.0	0.62 J	3.2	0.72 J	0.15 J	**5,300**	< 0.20	3.6 J	6.4 J	< 5.0	< 5.0	< 5.0	1.1 J	3.3 J	< 100	**9,900**	63.0 J	57.0	21.0 J	210
		2004 02 (Summer)	1.5	**20.0**	**310**	< 1.0	< 1.0	0.48 J	0.19 J	0.46 J	0.11 J	**3,200**	0.059 J	< 5.0	0.91 J	< 1.0	< 1.0	0.30 J	0.71 J	6.8	< 50.0	**13,000**	97.0	30.0	11.0	89.0
		2003 04 (Winter)	< 5.0	**39.6 J**	**505**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**10,200**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**24,600**	101	90.6	26.8	234
		2003 02 (Summer)	< 50.0	**41.0 J**	**520 J**	< 4.0	< 5.0	< 10.0	**5.6 J**	< 10.0	< 10.0	**10,600 J**	-	< 50.0	**8.7 J**	< 20.0	< 10.0	< 5.0	< 50.0	1.5 J	< 200	**29,000 J**	108	99.9	45.6 J	194 J
		2002 04 (Winter)	0.86 J	**30.0**	**470**	< 2.0	< 5.0	0.23 J	**5.5 J**	0.62 J	< 3.0	**11,000**	< 0.20	3.3 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	18.0 J	**26,000**	100	94.0	26.0	240
		2002 02 (Summer)	0.90 J	**41.0**	**490 J**	< 2.0	< 5.0	< 10.0	**6.3 J**	0.68 J	0.33 J	**11,000 J**	< 0.20	3.6 J	6.8 J	0.63 J	< 5.0	< 2.0	7.0 J	4.1 J	**210**	**26,000**	96.0	86.0 J	21.0	200
	MWD13-3	2006 01 (Spring)	< 1.0	2.1 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	1.3 J	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.27 J	1.3 J	25.0	< 2.0	< 5.0	1.1 J	0.057 J	1.6 J	< 3.0	29.0	0.096 J	2.7 J	2.5 J	0.46 J	< 5.0	< 5.0	0.53 J	6.0 J	9.8 J	170	31.0 J	5.8	11.0 J	47.0 J
		2004 04 (Winter)	1.5	0.83 J	33.0	< 2.0	< 5.0	0.36 J	0.099 J	0.52 J	0.31 J	70.0	< 0.20	1.9 J	1.3 J	< 5.0	< 5.0	< 5.0	0.88 J	3.1 J	< 100	74.0 J	41.0 J	6.6	6.9 J	33.0
		2004 02 (Summer)	1.2	1.4	28.0	< 1.0	< 1.0	0.33 J	0.070 J	1.1	0.14 J	42.0	0.064 J	2.1 J	1.7	< 1.0	< 1.0	< 1.0	0.59 J	8.5	< 50.0	62.0 J	36.0	5.8	7.8	37.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	27.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	56.8	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	58.8 J	34.9	5.6	6.5	29.9
		2003 02 (Summer)	< 50.0	< 50.0	34.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	44.0 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	61.6 J	65.1 J	39.3 J	6.3 J	8.9 J	42.7 J
		2002 04 (Winter)	0.57 J	0.64 J	< 41.0	< 2.0	< 5.0 UJ	< 10.0	0.17 J	1.1 J	0.20 J	44.0	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 2.0	5.3 J	**120**	23.0 J	< 130	32.0	5.4	3.5	30.0
		2002 02 (Summer)	< 50.0	< 5.0	22.0	< 2.0	< 5.0	0.88 J	< 10.0	0.31 J	< 3.0	23.0	< 0.20	< 20.0	1.4 J	1.3 J	< 5.0	< 2.0	1.5 J	0.70 J	9.8 J	72.0 J	30.0	4.6	7.8	38.0
	MWD13-4	2006 01 (Spring)	0.15 J	4.7 J	-	< 2.0	< 5.0	1.9 J	-	< 10.0	< 3.0	-	< 0.20	-	1.3 J	< 5.0	< 5.0	< 5.0	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.94 J	4.3 J	9.3 J	< 2.0	< 5.0	1.1 J	< 1.0	**5.3 J**	< 3.0	< 10.0	< 0.20	5.6 J	2.1 J	0.67 J	< 5.0	< 5.0	**19.0**	< 20.0	**280**	69.0 J	14.0	< 0.50 UJ	13.0	160
		2004 04 (Winter)	0.91 J	3.9 J	9.3 J	< 2.0	< 5.0	0.47 J	< 1.0	1.2 J	0.12 J	< 10.0	< 0.20	5.2 J	2.1 J	< 5.0	< 5.0	< 5.0	**20.0**	1.7 J	**500**	< 100	16.0 J	< 0.50	12.0 J	170
		2004 02 (Summer)	2.0	4.5	9.7	< 1.0	< 1.0	0.59 J	< 1.0	1.7	0.12 J	1.0	< 0.20	5.4	1.7	< 1.0	< 1.0	0.18 J	**21.0**	7.6	**360**	51.0	15.0 J	0.0076 J	11.0	200
		2003 04 (Winter)	< 5.0 UJ	< 50.0	9.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0	-	< 50.0	< 20.0	< 20.0	< 10.0	-	**24.6 J**	< 20.0	**439**	< 100	17.2	< 0.50	12.4	191
		2003 02 (Summer)	< 50.0	6.4 J	10.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 0.40	**8.8 J**	< 20.0	< 20.0	< 10.0	< 5.0	**25.7 J**	< 20.0	**507**	< 100	18.0 J	< 0.50	18.1 J	177 J
		2002 04 (Winter)	0.60 J	3.9 J	9.3 J	< 2.0	< 5.0	< 10.0	0.046 J	0.83 J	< 3.0	0.23 J	< 0.20	**5.7 J**	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	**17.0**	2.1 J	**380**	< 100	16.0	< 0.50	11.0	220
		2002 02 (Summer)	< 50.0	< 5.0	10.0 J	< 2.0	< 5.0	0.75 J	< 10.0	0.52 J	< 3.0	< 10.0	< 0.20	< 20.0	1.6 J	0.85 J	< 5.0	< 2.0	**19.0**	1.4 J	**340**	36.0 J	17.0	0.014 J	11.0	180
	MWOR-4	2006 01 (Spring)	0.55 J	2.4 J	-	0.25 J	0.69 J	< 10.0	-	1.6 J	< 3.0	-	< 0.20	-	3.3 J	< 5.0	< 5.0	< 5.0	-	2.5 J	-	-	-	-	-	-
		2005 02 (Summer)	0.31 J	0.83 J	48.0	< 2.0	< 5.0	1.9 J	0.044 J	0.92 J	< 3.0	1.5 J	< 0.20	0.61 J	1.9 J	0.64 J	< 5.0	< 5.0	2.6 J	2.3 J	< 100	100	17.0	9.0 J	< 5.0	12.0
		2004 04 (Winter)	0.51 J	< 5.0	65.0	< 2.0	< 5.0	0.57 J	0.079 J	1.4 J	< 3.0	< 10.0	< 0.20	0.78 J	2.4 J	< 5.0	< 5.0	< 5.0	2.4 J	**23.0**	< 100	120	30.0 J	40.0	12.0 J	170
		2004 02 (Summer)	2.8	1.2	53.0	< 1.0	< 1.0	1.3	< 1.0	0.85 J	< 1.0	< 10.0	< 0.20	< 5.0	1.2	**2.3**	< 1.0	< 1.0	2.9	4.7	< 50.0	< 100	20.0	9.9	3.4	16.0
		2003 04 (Winter)	< 5.0 UJ	< 50.0	69.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	< 10.0	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	27.9	13.9	4.1	27.6
		2003 02 (Summer)	< 50.0	< 50.0	41.3 J	< 4.0	< 5.0	< 10.0	< 10.0	1.9 J	< 10.0	303	< 0.40 UJ	< 50.0	3.3 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	48.6 J	73.8	39.9	32.9 J	135
		2002 04 (Winter)	0.15 J	0.64 J	64.0	< 2.0	< 5.0	0.23 J	0.10 J	1.2 J	< 3.0	1.8 J	< 0.20	< 20.0	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	2.0 J	< 20.0	6.0 J	< 140	28.0	14.0	3.1	39.0
		2002 02 (Summer)	< 50.0	1.1 J	60.0	< 2.0	< 5.0	1.5 J	< 10.0	1.1 J	< 3.0	1.4 J	< 0.20	< 20.0	2.5 J	0.82 J	< 5.0	< 2.0	2.7 J	1.2 J	< 100	56.0 J	27.0	12.0	2.7	31.0
SWBZ	D07C-01	2006 01 (Spring)	< 1.0	2.6 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	1.2 J	-	< 0.20	-	< 20.0	< 5.0	**3.3 J**	**9.8**	-	**11.0 J**	-	-	-	-	-	-
		2005 02 (Summer)	0.32 J	2.1 J	88.0	< 2.0	0.79 J	0.94 J	0.34 J	3.1 J	< 3.0	370	< 0.20	0.56 J	4.5 J	0.75 J	< 5.0	< 5.0	4.1 J	**12.0 J**	2.8 J	400	71.0	74.0	1.5	150
		2004 04 (Winter)	4.8 J	**8.8 J**	84.0	< 10.0	**2.2 J**	2.1 J	2.4 J	**8.5 J**	< 15.0	520	< 0.20	2.3 J	**22.0 J**	< 25.0	< 25.0	< 25.0	**24.0 J**	**28.0 J**	< 500	< 100	70.0 J	72.0	1.1 J	160
		2004 02 (Summer)	4.4	1.3	87.0	< 1.0	0.27 J	0.13 J	0.41 J	1.6	0.13 J	160	0.052 J	0.42 J	< 20.0	0.70 J	< 1.0	< 1.0	4.4	7.9	5.0 J	< 100	69.0 J	70.0	0.78	160
		2003 04 (Winter)	< 5.0	< 50.0	82.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	521 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	5.2 J	< 20.0	< 200	< 100	68.4	69.9	< 1.9	173
		2003 02 (Summer)	< 50.0	< 50.0	91.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	74.6	< 0.40 UJ	< 50.0	1.6 J	< 20.0	< 10.0	< 5.0	4.4 J	< 20.0	< 200	< 100	73.4	76.5	1.6 J	146
		2002 04 (Winter)	0.079 J	0.96 J	89.0	< 2.0	< 5.0	< 10.0	0.48 J	1.3 J	< 3.0	190	< 0.20	0.50 J	< 20.0 UJ	0.38 J	< 5.0	< 2.0	3.4 J	**26.0 J**	6.1 J	300	66.0	67.0	1.2	160
		2002 02 (Summer)	< 50.0	0.99 J	89.0	< 2.0	< 5.0	< 10.0	0.98 J	< 10.0	< 3.0	410	< 0.20	< 20.0	< 20.0	**2.2 J**	< 5.0	< 2.0	< 10.0	< 20.0	3.5 J	< 100	69.0	73.0	1.3	180

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 10-4

Groundwater Sample Analytical Results at IR Site 9 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
SWBZ	D09-01	2006 01 (Spring)	0.14 J	3.7 J	-	< 2.0	**3.7 J**	3.4 J	-	< 10.0	**5.4**	-	< 0.20	-	**11.0 J**	**8.6**	**10.0**	< 5.0	-	< 20.0	-	-	-	-	-	-	-
		2005 02 (Summer)	< 1.0	< 5.0	63.0	< 2.0	**2.5 J**	< 10.0	**14.0**	2.2 J	< 3.0	**14,000**	< 0.20	0.47 J	**19.0 J**	**63.0**	< 5.0	< 5.0	< 10.0	**120**	10.0 J	**6,900**	**950**	1,100	10.0	4,200
		2004 04 (Winter)	0.72 J	**15.0**	65.0	< 2.0	0.60 J	0.88 J	**16.0**	6.9 J	0.15 J	**16,000**	< 0.20	0.50 J	< 200	**27.0**	< 5.0	< 5.0	1.2 J	**34.0**	< 100	47.0 J	**1,400**	1,700	12.0	5,800
		2004 02 (Summer)	0.41 J	< 1.0	76.0	< 1.0	< 1.0	0.31 J	**15.0**	5.2	1.0	**17,000**	< 0.20	0.65 J	**120 J**	< 1.0	< 1.0	< 1.0	< 1.2	< 1.0	3.5 J	< 100	**1,400 J**	1,600	14.0	5,500
		2003 04 (Winter)	< 5.0	< 50.0	64.1 J	< 4.0	< 5.0	< 10.0	**14.7**	< 10.0	< 10.0	**15,700**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	46.0 J	**1,860 J**	2,170 J	22.4 J	7,390 J
		2003 02 (Summer)	< 50.0	< 50.0	66.3 J	< 4.0	< 5.0	< 10.0	**16.2**	1.3 J	< 10.0	**16,100**	< 0.40 UJ	< 50.0	**13.3 J**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	61.5 J	**1,500**	1,770	48.6 J	5,340
		2002 04 (Winter)	< 50.0	< 5.0	69.0	< 2.0	< 5.0	0.53 J	**15.0**	**7.7 J**	< 3.0	**16,000**	< 0.20	0.91 J	< 20.0 UJ	< 5.0 UJ	0.038 J	< 2.0	< 10.0	< 20.0	< 100	**5,500**	**1,600**	1,900	11.0	6,500
		2002 02 (Summer)	< 50.0	< 5.0	72.0	< 2.0	**2.0 J**	**7.3 J**	**13.0**	7.4 J	< 3.0	**14,000**	< 0.20	< 20.0	< 20.0	< 5.0	0.24 J	< 2.0	3.0 J	< 100	< 100	**3,700**	**1,300**	1,500	12.0	5,300
	D10B-02	2006 01 (Spring)	< 1.0	1.1 J	-	0.34 J	0.72 J	< 10.0	-	1.7 J	0.22 J	-	< 0.20	-	2.1 J	< 5.0	< 5.0	< 5.0	-	9.6 J	-	-	-	-	-	-
		2005 02 (Summer)	0.16 J	3.2 J	82.0	< 2.0	< 5.0	1.1 J	0.43 J	< 10.0	< 3.0	280 J	< 0.20	< 20.0	3.8 J	1.6 J	< 5.0	< 5.0	1.1 J	**13.0 J**	< 100	1,200	170	100	4.7	900
		2004 04 (Winter)	0.61 J	5.6	64.0	< 2.0	< 5.0 UJ	0.33 J	0.38 J	1.8 J	0.17 J	420	< 0.20	1.2 J	3.4 J	**9.0**	< 5.0	< 5.0	1.1 J	9.5 J	2.0 J	950	220,000	150,000	4,900 J	1,300,000
		2004 02 (Summer)	0.21 J	2.4	74.0	< 1.0	< 1.0	0.24 J	0.24 J	1.9	0.38 J	290	< 0.20	1.7 J	< 20.0	< 1.0	< 1.0	< 1.0	< 1.6	< 1.0	4.4 J	< 100	220 J	130	5.0	1,200
		2003 04 (Winter)	< 5.0	< 50.0	70.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	300	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	247 J	160 J	5.6 J	1,590 J
		2003 02 (Summer)	< 50.0	< 50.0	72.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	208 J	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 100	< 50.0	2.7 J	90.7 J	< 100	254 J	131 J	5.2 J	1,130 J
		2002 04 (Winter)	< 50.0	3.3 J	83.0	< 2.0	0.083 J	0.16 J	0.31 J	0.71 J	< 3.0	150	< 0.20	2.0 J	< 20.0 UJ	**7.4 J**	< 5.0	< 2.0	< 10.0	< 20.0	< 100	940	300	110	4.5	1,400
		2002 02 (Summer)	< 50.0	2.1 J	84.0	< 2.0	< 5.0	1.1 J	0.54 J	< 10.0	< 3.0	360	< 0.20	< 20.0	< 20.0	**6.0**	-	< 2.0	1.3 J	< 20.0	< 100	630	210	140	4.3	1,200
	D13-01	2006 01 (Spring)	0.43 J	2.4 J	-	0.26 J	0.57 J	< 10.0	-	2.6 J	0.24 J	-	< 0.20	-	1.3 J	< 5.0	< 5.0	< 5.0	-	1.4 J	-	-	-	-	-	-
		2005 02 (Summer)	0.41 J	3.5 J	**260**	< 2.0	< 5.0	1.4 J	0.67 J	< 10.0	< 3.0	500 J	< 0.20	< 20.0	2.5 J	0.81 J	< 5.0	< 5.0	5.7 J	**23.0**	< 100	710	100	110	2.4	110
		2004 04 (Winter)	0.28 J	2.9 J	**280**	< 2.0	< 5.0	0.36 J	0.58 J	2.0 J	< 3.0	570	< 0.20	0.44 J	1.6 J	< 5.0	< 5.0	< 5.0	5.1 J	4.1 J	< 100	32.0 J	130 J	140	2.8 J	120
		2004 02 (Summer)	1.3	1.6	**260**	< 1.0	< 1.0	0.93 J	0.29 J	1.2	0.078 J	26.0	< 0.20	< 5.0	1.3	< 1.0	< 1.0	< 1.0	4.4	**76.0**	< 50.0	< 100	120	65.0	2.0	840
		2003 04 (Winter)	< 5.0	< 50.0	**354**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	721	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	**2.6 J**	5.0 J	**31.7**	< 200	< 100	166 J	183 J	2.9 J	168 J
		2003 02 (Summer)	< 50.0	< 50.0	**333**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	659	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	4.7 J	< 20.0	< 200	< 100	151	177	3.2 J	136
		2002 04 (Winter)	0.17 J	2.7 J	**310**	< 2.0	< 5.0	0.090 J	0.60 J	1.9 J	< 3.0	580	0.046 J	< 20.0	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	3.9 J	< 20.0	4.8 J	650	140	150	2.2	140
		2002 02 (Summer)	< 50.0	2.4 J	**260**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	540	< 0.20	< 20.0	< 20.0	**2.4 J**	< 5.0	< 2.0	< 10.0	< 20.0	**260**	< 100	130	140	2.3	130
	D19-01	2006 01 (Spring)	0.54 J	1.0 J	-	0.48 J	1.2 J	< 10.0	-	2.4 J	< 3.0	-	< 0.20	-	**31.0**	**2.6 J**	0.15 J	< 5.0	-	**12.0 J**	-	-	-	-	-	-
		2005 02 (Summer)	0.28 J	3.5 J	52.0	< 2.0	0.32 J	1.0 J	2.7	3.3 J	< 3.0	**10,000 J**	< 0.20	0.76 J	**24.0**	**5.9**	0.059 J	0.15 J	3.3 J	**41.0**	3.1 J	**3,000**	**550 J**	640 J	10.0 J	2,600 J
		2004 04 (Winter)	0.38 J	**8.8**	45.0	< 2.0	< 5.0	0.88 J	2.9	4.4 J	0.051 J	**11,000**	< 0.20	0.71 J	**22.0**	< 5.0	< 5.0	< 5.0	3.5 J	**13.0 J**	< 100	< 100	**570 J**	680	10.0 J	2,700
		2004 02 (Summer)	0.81 J	< 1.0	50.0	< 1.0	0.76 J	0.36 J	3.2	4.1	0.16 J	**10,000**	< 0.20	1.0 J	**21.0**	< 1.0	0.41 J	< 1.0	3.6	< 1.0	4.5 J	< 100	**630 J**	730	11.0	2,700
		2003 04 (Winter)	< 5.0 UJ	< 50.0	38.0 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**9,930**	< 0.40	**16.3 J**	**26.7**	< 20.0	< 10.0	< 10.0 UJ	5.3 J	< 20.0	< 200	< 100	**555**	693	11.8	3,080
		2003 02 (Summer)	< 50.0	< 50.0	52.9 J	< 4.0	**1.4 J**	< 10.0	2.5 J	2.4 J	< 10.0	**10,900**	< 0.40 UJ	< 50.0	**23.1**	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	< 100	**742**	843	30.2 J	2,850
		2002 04 (Winter)	0.12 J	7.6	53.0 J	< 2.0	0.87 J	< 10.0	2.8 J	3.8 J	< 3.0	**12,000 J**	< 0.20	0.89 J	**19.0 J**	**28.0**	< 5.0 UJ	< 2.0	2.9 J	< 20.0	< 100	**2,000**	**630 J**	760 J	9.7	3,200
		2002 02 (Summer)	< 50.0	4.8 J	47.0	< 2.0	< 5.0	**8.6 J**	< 10.0	< 10.0	< 3.0	**8,600**	< 0.20	< 20.0	< 21.0	**21.0 J**	< 5.0 UJ	< 2.0	< 10.0	< 20.0	< 100	< 100	**620**	720	9.8	2,800

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 10-5
Groundwater Sampling Field Parameters at IR Site 9 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	530MJ-MW1	09/07/05	***5.93***	4.73	-159
		03/10/05	6.71	0.05	-213
		11/11/04	6.68	0.18	-40
		07/06/04	6.78	0.27	-200
		03/04/04	6.92	1.53	-4.0
		12/22/03	7.09	0.12	183
		09/19/03	7.06	0.42	36
First	530MJ-MW2	09/07/05	6.17	4.76	-162
		03/10/05	6.77	0.00	-182
		11/12/04	6.54	0.13	76
		07/06/04	6.72	0.43	-118
		03/04/04	6.88	0.30	-157
		12/22/03	6.91	0.38	-70
		09/19/03	7.04	0.35	-37
First	M07C-06	09/08/05	6.39	0.98	-210
		03/10/05	6.95	0.01	-158
		11/12/04	6.63	0.31	118
		07/07/04	6.55	1.80	-110
		03/03/04	6.83	0.17	-25
		12/08/03	6.81	0.21	-114
		09/17/03	6.83	0.67	-148
		06/30/03	6.66	0.19	-121
		04/14/03	7.07	0.34	-46
		12/17/02	6.37	8.87	-168
		09/05/02	6.86	0.32	-169
		06/21/02	6.94	1.00	35
First	M07C-08	05/01/06	6.62	4.27	75
		09/08/05	6.04	0.39	12
		11/12/04	6.47	0.57	165
		07/06/04	6.25	0.39	3.0
		12/08/03	6.67	4.72	241
		06/30/03	6.43	0.56	163
		12/17/02	6.24	***12.93***	87.5
		07/24/02	6.40	1.10	167
First	M07C-09	09/08/05	6.31	0.47	32
		03/10/05	6.92	0.00	-2
		11/12/04	6.52	0.51	191
		07/07/04	6.32	3.10	237
		03/03/04	6.85	0.22	274
		12/08/03	6.72	0.24	159
		09/18/03	6.75	0.47	218
		06/30/03	6.60	0.40	198
		04/10/03	6.79	0.35	209
		12/17/02	6.49	1.09	38.5
		09/04/02	6.78	0.34	14
		06/19/02	6.89	1.10	144
First	M10B-01	09/07/05	8.08	0.96	-174

Table 10-5
Groundwater Sampling Field Parameters at IR Site 9 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M10B-01	03/10/05	7.37	3.96	-133
		11/11/04	6.97	1.03	46
		07/06/04	7.02	6.00	-20
		03/03/04	7.48	3.05	190
		12/08/03	7.21	1.24	-51
		09/17/03	7.17	0.96	-76
		07/02/03	7.19	0.67	-120
		04/10/03	7.31	1.70	83
		12/16/02	***9.14***	2.40	-125
		09/05/02	7.30	3.90	-152
First	M13-06	05/01/06	6.69	4.08	72
		09/08/05	7.26	6.98	-57
		11/11/04	7.51	0.45	173
		07/07/04	7.11	0.26	111
		12/09/03	7.32	0.47	10
		07/01/03	7.63	0.47	137
		12/17/02	6.33	0.00	-97
		06/18/02	7.39	0.67	3.4
First	M13-07	05/01/06	6.97	0.22	-252
		09/08/05	***5.12***	5.00	-126
		11/11/04	6.32	0.34	-9.0
		07/07/04	***5.95***	0.29	0.0
		12/09/03	6.46	0.31	-54
		07/01/03	6.86	0.25	-255
		12/17/02	7.31	2.12	67
		06/18/02	6.54	0.80	-147
First	M13-08	05/01/06	6.08	1.18	57
		09/07/05	6.45	0.70	-73
		11/12/04	6.88	6.95	234
		07/07/04	6.62	0.27	-11
		12/09/03	7.12	0.28	254
		07/01/03	7.34	0.16	-180
		12/17/02	6.90	0.21	107
		06/20/02	7.18	1.40	86
First	M13-09	05/02/06	6.23	1.53	-10
		09/08/05	***5.19***	4.62	26
		11/12/04	6.26	0.85	147
		07/07/04	***5.89***	0.41	24
		12/09/03	6.40	0.30	32
		07/01/03	6.47	0.26	-200
		12/17/02	6.33	2.45	58
		06/19/02	6.48	5.10	144
First	M13-P	09/06/05	7.24	1.00	53
		03/10/05	6.85	6.46	79
		11/12/04	6.37	0.40	282
		07/07/04	6.52	0.26	9.0
		03/03/04	6.78	0.37	198

Table 10-5
Groundwater Sampling Field Parameters at IR Site 9 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M13-P	12/22/03	6.65	0.28	47.8
		09/23/03	6.70	0.23	100
First	MW-001	09/08/05	6.29	0.00	-165
		11/12/04	6.46	0.11	-43
		07/06/04	6.32	0.38	-41
		12/08/03	6.24	0.52	18
		07/01/03	6.67	0.58	-83
		12/17/02	***5.67***	2.14	-90.1
		06/18/02	6.87	6.90	-130
First	MW410-1	05/01/06	7.17	2.54	-36
		09/07/05	7.37	0.33	-14
		03/10/05	7.66	1.08	25
		11/11/04	7.12	0.62	172
		07/06/04	7.05	***10.40***	195
		03/04/04	7.59	1.40	161
		12/10/03	7.38	1.11	17
		09/18/03	7.44	0.67	161
		07/01/03	7.56	0.94	163
		04/09/03	7.48	1.40	234
		12/16/02	6.92	6.90	-85.1
		09/04/02	7.44	0.58	-62.6
		06/18/02	7.47	1.19	-9.5
First	MW410-2	05/01/06	7.53	6.9	63
		09/07/05	7.19	0.44	-97
		03/10/05	7.38	0.39	-54
		11/11/04	6.92	0.74	109
		07/06/04	6.78	2.30	12
		03/03/04	6.85	0.68	26
		12/10/03	6.89	0.37	-30
		09/18/03	6.98	0.60	67
		07/01/03	6.95	0.87	44
		04/09/03	6.95	0.67	88
		12/16/02	6.19	***9.31***	-100.8
		09/05/02	6.67	2.30	-84.2
		06/18/02	7.09	2.40	-47
First	MW410-3	05/02/06	7.51	1.48	45
		09/07/05	7.37	0.73	90
		03/10/05	7.70	0.92	56
		11/12/04	7.51	0.58	165
		07/07/04	7.22	0.58	-72
		03/05/04	7.55	1.22	65
		12/11/03	7.54	1.18	129
		09/18/03	7.46	1.60	175
		07/01/03	7.51	1.96	185
		04/09/03	7.49	1.59	193
		12/16/02	7.02	6.16	35.4
		09/05/02	7.39	***9.50***	4.1

Table 10-5
Groundwater Sampling Field Parameters at IR Site 9 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MW410-3	06/18/02	7.49	0.29	223.2
First	MW410-4	05/02/06	8.08	4.87	47
		09/07/05	7.82	3.13	90
		03/14/05	8.40	1.31	-4
		11/11/04	8.22	2.52	160
		07/07/04	7.00	4.52	52
		03/04/04	8.19	2.91	-133
		12/10/03	8.43	3.53	314
		09/19/03	8.28	4.02	197
		07/01/03	8.24	6.32	189
		04/09/03	8.18	1.46	122
		12/16/02	7.59	6.92	-2.8
		09/04/02	7.96	0.75	46.9
		06/18/02	8.27	3.60	43
First	MW530-2	09/08/05	7.22	0.76	-9.0
		11/11/04	7.23	0.79	61
		07/07/04	7.47	0.50	-117
		12/10/03	7.36	0.46	-65
		07/01/03	7.80	0.52	170
		12/16/02	7.26	2.76	25.6
		06/18/02	7.82	1.60	197
First	MW530-3	09/07/05	6.79	4.56	-43
		11/12/04	7.22	0.24	206
		07/06/04	7.27	3.98	-31
		12/11/03	7.71	0.92	370
		07/02/03	7.70	0.23	-298
		12/16/02	6.89	4.21	-106.8
		06/18/02	7.57	0.38	-55.8
First	MW547-3	09/08/05	6.63	2.10	-118
		03/10/05	7.14	8.51	-224
		11/12/04	6.75	0.30	-51
		07/07/04	6.55	3.50	-80
		03/04/04	7.01	0.24	-130
		12/10/03	7.09	0.20	-89
		09/18/03	6.89	0.34	-111
		07/03/03	7.06	0.20	-124
		04/10/03	7.27	0.22	-130
		12/17/02	***9.24***	0.00	-184
		09/05/02	6.94	4.00	-172
		06/20/02	7.03	0.60	-164
First	MWD13-3	05/01/06	7.79	1.7	-172
		09/08/05	8.35	0.00	-208
		11/12/04	7.49	0.36	59
		07/07/04	8.02	0.21	-19
		12/11/03	8.03	0.28	194
		07/01/03	***8.58***	0.20	-144
		12/18/02	7.09	4.11	58.4

Table 10-5
Groundwater Sampling Field Parameters at IR Site 9 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MWD13-3	06/19/02	***8.55***	1.30	-193
First	MWD13-4	05/01/06	9.15	1.69	-199
		09/08/05	***11.04***	0.02	-268
		03/10/05	***11.26***	0.37	-310
		11/12/04	***11.36***	0.86	98
		07/08/04	***10.66***	0.42	-63
		03/03/04	***10.89***	0.35	169
		12/11/03	***11.13***	0.50	56
		09/22/03	***11.18***	0.14	105
		07/01/03	***11.51***	0.18	-156
		04/10/03	***11.30***	1.19	160
		12/16/02	***12.20***	0.00	-27.5
		09/05/02	***11.05***	3.70	-293
		06/19/02	***11.28***	1.70	-240
First	MWOR-4	05/02/06	7.12	3.4	74
		09/08/05	***5.39***	4.67	99
		11/12/04	6.21	0.28	184
		07/07/04	***5.90***	1.32	8.0
		12/11/03	6.37	0.43	115
		07/02/03	6.27	1.39	177
		12/17/02	6.74	0.00	167
		06/19/02	6.53	3.90	178
Second	D07C-01	04/27/06	7.01	4.67	89
		09/08/05	6.66	0.05	27
		11/12/04	7.09	0.14	173
		07/06/04	7.13	0.32	-123
		12/09/03	7.18	0.30	229
		06/30/03	6.89	0.65	205
		12/17/02	6.72	2.33	76
		07/11/02	7.06	***19.9***	116
Second	D09-01	04/27/06	6.37	0.83	41
		09/07/05	6.54	0.08	83
		03/10/05	6.74	0.22	58
		11/11/04	6.60	0.43	206
		07/06/04	6.53	3.10	179
		03/03/04	6.47	0.25	233
		12/04/03	6.55	0.29	136
Second	D09-01	09/18/03	6.54	0.54	1.64
		07/02/03	6.76	0.24	-271
		04/10/03	6.66	0.51	180
		12/16/02	8.18	0.00	-67
		09/05/02	6.38	NM	-56
		06/28/02	6.57	0.26	76.4
Second	D10B-02	04/27/06	8.11	0.16	-82
		09/07/05	7.52	5.02	-180
		11/15/04	7.87	0.10	201
		07/06/04	8.26	1.20	107

Table 10-5
Groundwater Sampling Field Parameters at IR Site 9 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D10B-02	12/04/03	8.07	0.11	-24
		07/01/03	***8.54***	0.09	-197
		12/16/02	***10.18***	0.00	-190
		06/28/02	8.10	0.82	164.6
Second	D13-01	04/27/06	7.22	0.21	117
		09/08/05	6.03	5.35	42
		11/12/04	7.31	0.81	2.28
		07/07/04	7.04	0.73	-70
		12/04/03	7.36	0.19	-18
		06/30/03	7.50	0.19	-195
		12/17/02	7.57	0.00	113
		07/08/02	7.35	***10.25***	278.5
Second	D19-01	05/01/06	7.04	0.42	-5
		09/08/05	6.96	0.00	95
		11/12/04	6.97	0.24	284
		07/06/04	6.94	0.09	46
		12/08/03	7.02	0.14	112
		06/30/03	7.20	0.16	51
		12/11/02	6.62	4.71	21.4
		07/12/02	6.96	0.30	258

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 10-6

Groundwater Sample Analytical Results at IR Site 9 Group: Natural Attenuation Parameters

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	45.0	1.0	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M07C-06	2005 02 (Summer)	< 0.0050	< 0.0050	**4.9**	< 0.050	< 0.050	**18.0**	< 0.50	**800**	**800**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.34**	< 0.050	< 0.050	**3.9**	**4.1**	**100**	**100**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**5.2**	< 0.050	< 0.050	**20.0**	< 0.50	**960**	**960**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	**0.0010 J**	< 0.0030	**2.2**	< 1.0	< 1.0	**17.9**	< 5.0	**960**	**960**	< 5.0	-	< 1.0
		2003 02 (Summer)	**0.0013 J**	< 0.0030	**1.8**	< 0.10 UJ	< 0.10 UJ	**27.0**	**0.36 J**	**1,000**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**3.0**	< 0.050	< 0.050	**24.0**	< 0.50	**920**	**920**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.64**	**0.43**	**0.34**	**19.0**	**0.97**	**810**	**810**	< 1.0	< 1.0	< 0.040
	M07C-08	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.070**	< 0.050	**3.9**	**4.6**	**170**	**170**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0060**	< 0.050	< 0.050	**6.0**	**7.5**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0040 J**	**1.3**	< 0.050	**9.8**	**16.0**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.050	< 0.050	**7.3**	**8.6**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0014 J**	**1.6**	< 1.0	**9.2**	**14.9**	**177**	**177**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0008 J**	**0.29**	< 0.10	**8.0**	**7.6**	**128**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**9.3**	< 0.050	**16.0**	**18.0**	**69.0**	**69.0**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.050 J	< 0.050	**9.7**	**5.5**	**330**	**330**	< 1.0	< 1.0	< 0.040
	M07C-09	2005 02 (Summer)	< 0.0050	< 0.0050	**0.058**	< 0.050	< 0.050	**14.0**	**15.0**	**400**	**400**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0060**	**0.15**	< 0.050	**12.0**	**10.0**	**320**	**320**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.067**	< 0.050	< 0.050	**13.0**	**13.0**	**370**	**370**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0069**	< 1.0	< 1.0	**9.5**	**10.8**	**342**	**342**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.051**	**0.16**	< 0.10	**16.0**	**24.0**	**390**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.012**	< 0.050	< 0.050	**9.2**	**7.9**	**350**	**350**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.033**	**0.12**	< 0.050	**11.0**	**13.0**	**390**	**390**	< 1.0	< 1.0	< 0.040
	M10B-01	2005 02 (Summer)	< 0.0050	< 0.0050	**0.039**	< 0.050	< 0.050	**340**	**59.0**	**390**	**390**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.064**	**0.16**	< 0.050	**420**	**89.0**	**400**	**400**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.051**	**0.13**	< 0.050	**510**	**110**	**440**	**440**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.044**	< 1.0	< 1.0	**518**	**133**	**485**	**485**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.042**	< 1.0	< 1.0	**824**	**231**	**500**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.020**	**0.14**	< 0.050	**580**	**250**	**590**	**590**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.034**	**0.64**	< 0.050	**680**	**370**	**670**	**670**	< 1.0	< 1.0	< 0.040
	M13-06	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0080**	**0.010 J**	< 0.050	**5.9**	**13.0**	**270**	**220**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.060**	< 0.050	< 0.050	**10.0**	**16.0**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.12**	**0.050**	< 0.050	**19.0**	**15.0**	**260**	**260**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.050**	< 0.050	< 0.050	**12.0**	**24.0**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.13**	< 1.0	< 1.0	**20.6 J**	**10.5**	**279**	**279**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0088**	**0.12**	< 0.10	**13.5**	**26.3**	**266**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.011**	**1.2**	< 0.050	**17.0**	**36.0**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.018**	< 0.050	< 0.050	**16.0**	**39.0**	**280**	**280**	< 1.0	< 1.0	< 0.040
	M13-07	2006 01 (Spring)	< 0.050	< 0.050	**13.0**	< 0.050	< 0.050	**7.9**	**0.47 J**	**190**	**190**	< 1.0	< 1.0	**0.15**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-6

Groundwater Sample Analytical Results at IR Site 9 Group: Natural Attenuation Parameters

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	45.0	1.0	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M13-07	2005 02 (Summer)	< 0.0050	< 0.0050	**4.9**	< 0.050	< 0.050	**110**	< 0.50	**390**	**390**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**14.0**	< 0.050	< 0.050	**130**	< 0.50	**430**	**430**	< 1.0	< 1.0	**0.090**
		2004 02 (Summer)	< 0.010	< 0.010	**17.0**	< 0.050	< 0.050	**74.0**	< 0.50	**370**	**370**	< 1.0	< 1.0	**0.18**
		2003 04 (Winter)	< 0.0030	< 0.0030	**5.8**	< 1.0	< 1.0	**236**	**0.63**	**532**	**532**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**7.1**	< 0.10	< 0.10	**25.1**	< 0.50	**236**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**12.0**	< 0.050	< 0.050	**170**	**0.38 J**	**460**	**460**	< 1.0	< 1.0	**0.13**
		2002 02 (Summer)	< 0.010	< 0.010	**12.0**	< 0.050	< 0.050	**130**	< 0.50 J	**420**	**420**	< 1.0	< 1.0	< 0.040
	M13-08	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**6.6**	**0.070**	**21.0**	**50.0**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0030 J**	**7.3**	**0.050**	**20.0**	**60.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	**7.8**	**0.040 J**	**19.0**	**63.0**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**7.4**	**0.020 J**	**19.0**	**64.0**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	< 0.0030	**9.8 J**	< 1.0	**17.1**	**68.3**	**201**	**201**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	**7.6**	< 0.10	**19.4**	**66.3**	**199**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**8.1**	< 0.050	**18.0**	**77.0**	**220**	**220**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**7.8**	< 0.050 J	**18.0**	**77.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
	M13-09	2006 01 (Spring)	< 0.0050	< 0.0050	**0.31**	**6.2**	< 0.050	**13.0**	**94.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.52**	**1.2**	< 0.050	**19.0**	**87.0**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.20**	**0.47**	< 0.050	**26.0**	**69.0**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.12**	**2.3**	< 0.050	**25.0**	**72.0**	**260**	**260**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.31**	< 1.0	< 1.0	**27.3 J**	**51.1**	**313**	**313**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.044**	**3.0**	< 0.10	**27.2**	**103**	**211**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.072**	**0.50**	< 0.050	**28.0**	**80.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.030**	**3.7**	< 0.050 J	**31.0**	**100**	**210**	**210**	< 1.0	< 1.0	< 0.040
	MW-001	2005 02 (Summer)	< 0.0050	< 0.0050	**12.0**	< 0.050	< 0.050	**23.0**	**0.89**	**360**	**360**	< 1.0	< 1.0	**0.060**
		2004 04 (Winter)	< 0.0050	< 0.0050	**12.0**	< 0.050	< 0.050	**17.0**	**3.7**	**360**	**360**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**12.0**	< 0.050	< 0.050	**16.0**	**6.6**	**340**	**340**	< 1.0	< 1.0	**0.070**
		2003 04 (Winter)	< 0.0030	< 0.0030	**3.8**	< 1.0	< 1.0	**23.8**	**127**	**212**	**212**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**4.8**	< 0.20	< 0.20	**22.3**	**41.6**	**303**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**10.0**	< 0.050	< 0.050	**19.0**	**400**	**140**	**140**	< 1.0	< 1.0	**0.13**
		2002 02 (Summer)	< 0.010	< 0.010	**4.9**	< 0.050	< 0.050	**24.0**	**5.8**	**290**	**290**	< 1.0	< 1.0	< 0.040
	MW410-1	2006 01 (Spring)	< 0.0050	< 0.0050	**0.71**	**0.40**	< 0.050	**110**	**19.0**	**230**	**230**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.026**	**0.44**	< 0.050	**160**	**28.0**	**260**	**260**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.014**	**0.42**	< 0.050	**260**	**33.0**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.019**	**0.88**	< 0.050	**230**	**31.0**	**290**	**290**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.044**	**0.74**	< 0.10	**102**	**32.5**	**284**	**284**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.011**	**0.74**	< 5.0	**269**	**37.4**	**268**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.095**	**0.21**	< 0.050	**300**	**27.0**	**320**	**320**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.016**	**0.60**	< 0.050	**250**	**28.0**	**240**	**240**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-6
Groundwater Sample Analytical Results at IR Site 9 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	45.0	1.0	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW410-2	2006 01 (Spring)	< 0.0050	< 0.0050	**0.073**	**0.44**	< 0.050	**6.7**	**23.0**	**440**	**440**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.24**	**0.58**	< 0.050	**17.0**	**30.0**	**350**	**350**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.69**	-	-	-	-	-	-	-	-	-
		2004 02 (Summer)	< 0.010	< 0.010	**0.62**	**0.20**	< 0.050	**19.0**	**30.0**	**380**	**380**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	**0.0029 J**	**1.0**	< 0.10	< 0.10	**33.1**	**20.9**	**539**	**539**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	**0.0066**	**1.5**	**0.49**	< 0.10	**40.0**	**15.3**	**491**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	**0.032**	**5.1**	**0.33**	< 0.050	**87.0**	**5.6**	**710**	**710**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	**0.017**	**4.4**	**1.5**	< 0.050	**62.0**	**20.0**	**640**	**640**	< 1.0	< 1.0	< 0.040
	MW410-3	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0030 J**	**1.4**	**0.050**	**14.0**	**48.0**	**210**	**210**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0030 J**	**1.1**	**0.010 J**	**13.0**	**39.0**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0030 J**	**0.83**	**0.030 J**	**13.0**	**37.0**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.43**	< 0.050	**17.0**	**39.0**	**100**	**100**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0096**	**2.1**	< 0.10	**20.9**	**81.6**	**208**	**208**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0020 J**	**1.7**	< 0.10	**30.2**	**38.3**	**204**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**0.84**	< 0.050	**9.8**	**27.0**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.69**	< 0.050	**11.0**	**34.0**	**260**	**260**	< 1.0	< 1.0	< 0.040
	MW410-4	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.95**	< 0.050	**13.0**	**18.0**	**160**	**160**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0040 J**	**1.2**	< 0.050	**11.0**	**16.0**	**160**	**160**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.13**	**0.98**	< 0.050	**8.3**	**15.0**	**120**	**120**	**4.0**	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.019**	**0.84**	< 0.050	**6.3**	**8.8**	**110**	**110**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0081**	**1.7**	< 0.10	**16.4**	**18.1**	**130**	**130**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0014 J**	**1.4**	< 0.10	**16.7**	**13.3**	**112**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**1.6**	< 0.050	**35.0**	**30.0**	**250**	**250**	< 1.0	< 1.0	**0.040**
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**2.2**	< 0.050	**38.0**	**32.0**	**170**	**170**	< 1.0	< 1.0	< 0.040
	MW530-2	2005 02 (Summer)	< 0.0050	< 0.0050	**0.010**	**1.7**	**0.030 J**	**130**	**120**	**470**	**470**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.043**	< 0.25	< 0.25	**2,300**	**210**	**980**	**980**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.028**	**0.070**	< 0.10	**730**	**110**	**860**	**860**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.028**	< 0.10	< 1.0	**1,330**	**117**	**1,010**	**1,010**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.028**	< 0.10	< 10.0 UJ	**287**	**71.1**	**546**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**0.010 J**	< 0.050	**100**	**61.0**	**470**	**470**	< 1.0	< 1.0	**0.040**
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.61**	< 0.050	**86.0**	**66.0**	**760**	**760**	< 1.0	< 1.0	< 0.040
	MW530-3	2005 02 (Summer)	< 0.0050	< 0.0050	**0.049**	< 0.050	< 0.050	**33.0**	**49.0**	**250**	**250**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.039**	< 0.050	< 0.050	**78.0**	**44.0**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.017**	**0.12**	< 0.050	**130**	**78.0**	**250**	**250**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0035**	-	-	**11.5**	**10.1**	**28.7**	**28.7**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.075**	< 0.50	< 0.50	**12.4**	**10.0**	**139**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.50**	< 0.050	< 0.050	**18.0**	**11.0**	**290**	**290**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.26**	< 0.050	< 0.050	**13.0**	**11.0**	**200**	**200**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-6
Groundwater Sample Analytical Results at IR Site 9 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	45.0	1.0	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MW547-3	2005 02 (Summer)	< 0.0050	< 0.0050	**0.29**	**0.19**	< 0.050	**18.0**	**83.0**	**720**	**720**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	**0.010**	< 0.0050	**5.7**	**0.020 J**	< 0.050	**17.0**	**19.0**	**920**	**920**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**2.5**	< 0.050	< 0.050	**11.0**	**1.4**	**570**	**570**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	**0.010**	< 0.0030	**2.6**	**0.21**	< 0.10	**13.0**	< 0.50	**1,120**	**1,120**	< 5.0	-	< 1.0
		2003 02 (Summer)	**0.0096**	< 0.0030	**4.6**	< 0.10 UJ	< 0.10 UJ	**15.5**	< 0.50	**1,030**	-	-	-	< 1.0
		2002 04 (Winter)	**0.016**	< 0.010	**11.0**	< 0.050	< 0.050	**14.0**	**0.14 J**	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	**0.022**	< 0.010	**15.0**	< 0.050	< 0.050	**16.0**	< 0.50	**1,000**	**1,000**	< 1.0	< 1.0	< 0.040
	MWD13-3	2006 01 (Spring)	< 0.0050	< 0.0050	**0.74**	**0.040 J**	< 0.050	**21.0**	**28.0**	**130**	**130**	< 1.0	< 1.0	**0.20**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.63**	< 0.050	< 0.050	**43.0**	**56.0**	**84.0**	**84.0**	< 1.0	< 1.0	**0.35 J**
		2004 04 (Winter)	< 0.0050	< 0.0050	**1.1**	< 0.050	< 0.050	**30.0**	**41.0**	**100**	**100**	< 1.0	< 1.0	**0.29**
		2004 02 (Summer)	< 0.010	< 0.010	**0.95**	**0.020 J**	< 0.050	**34.0**	**44.0**	**120**	**120**	< 1.0	< 1.0	**0.40**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.48**	**0.090 J**	< 0.10	**31.5**	**37.8**	**116**	**116**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.47**	< 0.10	< 0.10	**53.2**	**56.7**	**99.3**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.30**	**0.13**	< 0.050	**20.0**	**33.0**	**120**	**120**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.37**	< 0.050	< 0.050	**28.0**	**45.0**	**99.0**	**99.0**	< 1.0	< 1.0	< 0.040
	MWD13-4	2006 01 (Spring)	< 0.0050	< 0.0050	**0.010**	**0.68**	**0.040 J**	**58.0**	**100**	**110**	< 1.0	**64.0**	**2.4**	**0.29**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.030**	**0.080**	**0.080**	**86.0**	**150**	**140**	< 1.0	**16.0**	**120**	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.037**	**0.070**	**0.020 J**	**92.0**	**150**	**180**	< 1.0	**88.0**	**96.0**	**1.2**
		2004 02 (Summer)	< 0.010	< 0.010	**0.028**	**0.080**	**0.050**	**78.0**	**130**	**170**	< 1.0	**48.0**	**130**	**0.84**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.016**	**0.21**	< 0.10	**59.6**	**151**	**161**	< 5.0	**62.0**	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.027**	**0.15**	< 0.10	**97.7**	**135**	**161**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.034**	< 0.050	< 0.050	**93.0**	**160**	**220**	**220**	< 1.0	< 1.0	**1.4**
		2002 02 (Summer)	< 0.010	< 0.010	**0.023**	**0.070**	**0.060**	**91.0**	**160**	**160**	< 1.0	**79.0**	**83.0**	< 0.040
	MWOR-4	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**41.0**	**0.76**	**380**	**140**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	**2.3**	< 0.050	**8.1**	**11.0**	**65.0**	**65.0**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	-	-	-	**0.34**	< 0.050	**11.0**	**33.0**	**140**	**140**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**4.0**	< 0.050	**9.6**	**14.0**	**86.0**	**86.0**	< 1.0	< 1.0	**0.060**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0033**	**0.58**	< 0.10	**11.5**	**38.9**	**119**	**119**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	**4.8**	< 0.10	**19.8**	**14.4**	**77.0**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**0.33**	< 0.050	**13.0**	**43.0**	**140**	**140**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**1.4**	< 0.050	**13.0**	**36.0**	**120**	**120**	< 1.0	< 1.0	< 0.040
SWBZ	D07C-01	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**3.2**	< 0.050	**220**	**130**	**360**	**360**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	**3.1**	< 0.050	**200**	**120**	**360**	**360**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	**3.3**	< 0.050	**240**	**130**	**360**	**360**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**3.4**	< 0.050	**210**	**120**	**350**	**350**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0007 J**	**3.8**	< 1.0	**279**	**124**	**378**	**378**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	**3.5**	< 0.10	**216**	**117**	**345**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**3.8**	< 0.050	**240**	**130**	**350**	**350**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 10-6

Groundwater Sample Analytical Results at IR Site 9 Group: Natural Attenuation Parameters

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**NA**	**NA**	**NA**	**45.0**	**1.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
SWBZ	D07C-01	2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**3.8**	< 0.050 J	**230**	**130**	**360**	**360**	< 1.0	< 1.0	< 0.040
	D09-01	2006 01 (Spring)	< 0.0050	< 0.0050	**0.020**	< 1.0	< 2.5	**13,000**	**2,000**	**260**	**260**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.027**	< 1.0	< 2.5	**13,000**	**2,000**	**250**	**250**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.027**	< 1.3	< 2.5	**15,000**	**2,100**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.026**	< 1.3	< 2.5	**14,000**	**2,000**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.017**	< 1.0	< 10.0	**11,800**	**1,620**	**221**	**221**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.016**	< 1.0	< 20.0 UJ	**15,600**	**1,950**	**229**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.024**	< 0.50	< 0.50	**15,000**	**2,100**	**240**	**240**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.025**	< 0.50	< 0.50	**15,000**	**2,000**	**210**	**210**	< 1.0	< 1.0	**0.060**
	D10B-02	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.11**	< 0.25	**1,600**	**290**	**120**	**120**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0030 J**	< 0.15	< 0.25	**2,100**	**380**	**110**	**110**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0030 J**	< 250	< 250	**2,300,000**	**400,000**	**140,000**	**140,000**	< 1,000	< 1,000	< 40.0
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	**2,300**	**390**	**140**	**140**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0024 J**	< 1.0	< 1.0	**2,190**	**451**	**122**	**122**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0021 J**	< 1.0	< 10.0 UJ	**2,470**	**414**	**91.8**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	**2,500**	**500**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	**2,500**	**420**	**130**	**130**	< 1.0	< 1.0	< 0.040
	D13-01	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**42.0**	**0.67**	**390**	**140**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	**44.0**	**0.76**	**420**	**150**	**290**	**290**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	**47.0**	**0.88**	**430**	**150**	**270**	**270**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**45.0**	**0.73**	**410**	**140**	**280**	**280**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	< 0.0030	**42.9**	**0.92 J**	**415**	**148**	**272**	**272**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	**44.1**	< 0.20	**430**	**149**	**263**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**50.0**	**0.46**	**410**	**150**	**260**	**260**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**50.0**	**0.66**	**450**	**150**	**280**	**280**	< 1.0	< 1.0	< 0.040
	D19-01	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0030 J**	**0.47 J**	< 1.0	**5,500**	**710**	**170**	**170**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0070**	**0.48 J**	< 1.0	**6,200**	**710**	**220**	**220**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0090**	**0.42 J**	< 1.0	**7,300**	**820**	**160**	**160**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.49 J**	< 1.3	**6,800**	**770**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0066**	< 1.0	< 50.0	**7,910**	**866**	**192**	**192**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0055**	**1.9**	< 1.0	**7,510**	**760**	**183**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 0.50	< 0.50	**7,400**	**820**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50 J	< 0.50	**7,200**	**800**	**160**	**160**	< 1.0	< 1.0	< 0.040

Table 10-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 9 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 9 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	5	22	6.2 J	MW-001	08 Sep 2005	99.0 J	M13-07	2002 04 (Winter)
Benzene (UG/L)	5	22	0.30 J	MW547-3	08 Sep 2005	2800	MW547-3	2002 02 (Summer)
TPH-Diesel (UG/L)	8	21	24000	530MJ-MW1	07 Sep 2005	190000	530MJ-MW1	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	3	22	20.0	MWD13-4	08 Sep 2005	24.0	MWD13-4	2003 04 (Winter)
TPH-Jet Fuel (UG/L)	6	21	15000	530MJ-MW1	07 Sep 2005	74000	530MJ-MW1	2005 01 (Spring)
Toluene (UG/L)	3	22	0.70	M13-07	01 May 2006	1.3 J	MW547-3	2003 01 (Spring)
Trichloroethene (UG/L)	3	22	4.2	MWD13-4	08 Sep 2005	4.2	MWD13-4	2002 03 (Fall)
1,1-Dichloroethene (UG/L)	1	22	0.30 J	MWD13-4	08 Sep 2005	3.9 J	MW547-3	2003 04 (Winter)
Ethylbenzene (UG/L)	1	22	0.70	MW547-3	08 Sep 2005	38.0	MW547-3	2002 02 (Summer)
TPH-Motor Oil (UG/L)	7	21	1200	MW-001	08 Sep 2005	5500 J	530MJ-MW1	2005 01 (Spring)
cis-1,2-Dichloroethene (UG/L)	5	22	4.2	MWD13-4	08 Sep 2005	20.0	MW410-2	2003 03 (Fall)
M,P-xylenes (UG/L)	1	22	0.20 J	MW547-3	08 Sep 2005	30.0	MW410-2	2002 03 (Fall)
TPH-Gasoline (UG/L)	9	21	320	M13-07	08 Sep 2005	7900	MW547-3	2002 02 (Summer)
Bromoform (UG/L)	1	22	0.10 J	530MJ-MW1	07 Sep 2005	0.20 J	MW410-4	2003 01 (Spring)
O-xylene (UG/L)	1	22	0.20 J	MW547-3	08 Sep 2005	12.0	MW410-2	2002 03 (Fall)
trans-1,2-Dichloroethene (UG/L)	1	22	0.20 J	MWD13-4	08 Sep 2005	0.90	MW410-2	2002 04 (Winter)
1,1-Dichloroethane (UG/L)	5	22	8.0	MWD13-4	08 Sep 2005	9.8	MWD13-4	2002 03 (Fall)
Naphthalene (UG/L)	4	22	180	M13-07	08 Sep 2005	460	MW547-3	2003 04 (Winter)
1,2-Dichloroethane (UG/L)	2	22	0.90	M13-P	06 Sep 2005	1.1	M13-P	2004 04 (Winter)
Carbon Disulfide (UG/L)	5	22	1.1 J	M13-07	08 Sep 2005	4.4	MWD13-3	2002 02 (Summer)
Methyl tert-butyl ether (MTBE) (UG/L)	5	22	0.70	MW410-2	07 Sep 2005	14.0	MW410-2	2002 03 (Fall)
1,1,1-Trichloroethane (UG/L)	3	22	2.9	MWD13-4	01 May 2006	27.0 J	MW547-3	2003 04 (Winter)
Chlorobenzene (UG/L)	3	22	1.1 J	MW410-1	01 May 2006	3.5	MW410-1	2005 01 (Spring)
Vinyl Chloride (UG/L)	1	22	1.6	MW410-2	07 Sep 2005	23.0	MW410-2	2003 03 (Fall)
1,3-Dichlorobenzene (UG/L)	3	22	0.20 J	M13-06	01 May 2006	--	NA	NA
1,3-Dichloropropane (UG/L)	2	22	0.20 J	MW410-3	07 Sep 2005	0.90	MW410-2	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

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Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 9 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
2-Hexanone (UG/L)	1	22	0.50 J	530MJ-MW1	07 Sep 2005	--	NA	NA
Isopropylbenzene (UG/L)	2	22	8.1	MW547-3	08 Sep 2005	140	MW547-3	2004 01 (Spring)
Isopropyl Ether (UG/L)	2	22	0.20 J	MW547-3	08 Sep 2005	1.8	MW410-2	2002 04 (Winter)
Methyl ethyl ketone (MEK) (UG/L)	1	22	1.2 J	530MJ-MW1	07 Sep 2005	610	530MJ-MW1	2005 01 (Spring)
Methyl isobutyl ketone (MIBK) (UG/L)	1	22	3.1 J	530MJ-MW1	07 Sep 2005	0.90 J	530MJ-MW1	2004 04 (Winter)
n-Butylbenzene (UG/L)	2	22	11.0	MW547-3	08 Sep 2005	51.0 J	MW547-3	2003 02 (Summer)
n-Propylbenzene (UG/L)	2	22	11.0	MW547-3	08 Sep 2005	280	MW547-3	2004 01 (Spring)
p-Isopropyltoluene (UG/L)	1	22	0.20 J	MW547-3	08 Sep 2005	0.40 J	MW547-3	2005 01 (Spring)
sec-Butylbenzene (UG/L)	3	22	3.6	MW547-3	08 Sep 2005	26.0 J	MW547-3	2003 03 (Fall)
Tert-butyl alcohol (UG/L)	4	21	43.0	MW547-3	08 Sep 2005	210	MW547-3	2003 01 (Spring)
1,2,3-Trichloropropane (UG/L)	1	22	0.80	MW410-3	07 Sep 2005	1.0	MW410-3	2004 04 (Winter)
1,2,4-Trimethylbenzene (UG/L)	1	22	7.1	MW547-3	08 Sep 2005	31.0	MW547-3	2005 01 (Spring)
1,3,5-Trimethylbenzene (UG/L)	1	22	4.6	MW547-3	08 Sep 2005	14.0	MW547-3	2005 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

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Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 9 Group (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	2	5	0.70 J	D10B-02	27 Apr 2006	0.70 J	D13-01	2002 04 (Winter)
TPH-Diesel (UG/L)	2	5	46.0 J	D13-01	27 Apr 2006	12000	D09-01	2005 01 (Spring)
Tetrachloroethene (PCE) (UG/L)	1	5	0.20 J	D19-01	08 Sep 2005	--	NA	NA
TPH-Jet Fuel (UG/L)	1	5	51.0	D13-01	27 Apr 2006	--	NA	NA
Trichloroethene (UG/L)	1	5	0.60	D19-01	08 Sep 2005	--	NA	NA
TPH-Motor Oil (UG/L)	3	5	230 J	D13-01	27 Apr 2006	52000	D09-01	2005 01 (Spring)
cis-1,2-Dichloroethene (UG/L)	1	5	0.30 J	D19-01	08 Sep 2005	--	NA	NA
TPH-Gasoline (UG/L)	1	5	25.0 J	D07C-01	08 Sep 2005	24.0 J	D19-01	2002 04 (Winter)
1,1-Dichloroethane (UG/L)	1	5	1.6	D19-01	08 Sep 2005	--	NA	NA
Methyl tert-butyl ether (MTBE) (UG/L)	1	5	0.20 J	D19-01	08 Sep 2005	--	NA	NA
1,1,1-Trichloroethane (UG/L)	1	5	0.60	D19-01	08 Sep 2005	--	NA	NA
Methyl ethyl ketone (MEK) (UG/L)	2	5	0.50 J	D07C-01	27 Apr 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

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Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 9 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	18	19	1.9	M07C-08	08 Sep 2005	3.6	M07C-08	2004 02 (Summer)
Arsenic (UG/L)	19	19	88.0	M07C-06	08 Sep 2005	112	M07C-06	2003 02 (Summer)
Barium (UG/L)	19	19	530	M07C-06	08 Sep 2005	670	M07C-06	2003 02 (Summer)
Beryllium (UG/L)	1	19	0.25 J	MWOR-4	02 May 2006	0.14 J	M13-07	2002 02 (Summer)
Cadmium (UG/L)	2	19	0.69 J	MWOR-4	02 May 2006	2.3 J	M13-09	2003 04 (Winter)
Chromium (UG/L)	18	19	15.0	MW410-1	01 May 2006	8.0 J	M10B-01	2002 02 (Summer)
Cobalt (UG/L)	12	19	3.1	M07C-06	08 Sep 2005	27.0	MW-001	2002 04 (Winter)
Copper (UG/L)	15	19	10.0	M07C-08	01 May 2006	38.0	M07C-08	2002 04 (Winter)
Lead (UG/L)	4	19	0.46 J	M07C-08	08 Sep 2005	6.7	MW-001	2002 04 (Winter)
Manganese (UG/L)	17	19	7200	M07C-06	08 Sep 2005	11000	MW547-3	2002 04 (Winter)
Mercury (UG/L)	1	19	0.096 J	MWD13-3	09 Sep 2005	1.7	M10B-01	2002 02 (Summer)
Molybdenum (UG/L)	12	19	11.0 J	MW530-2	08 Sep 2005	11.0	MW530-2	2004 02 (Summer)
Nickel (UG/L)	19	19	23.0	M07C-08	08 Sep 2005	32.0	M07C-08	2004 02 (Summer)
Selenium (UG/L)	14	19	6.9	MW530-2	08 Sep 2005	3.9 J	M13-09	2003 02 (Summer)
Thallium (UG/L)	4	19	3.0 J	MW410-3	02 May 2006	0.30 J	MW547-3	2004 02 (Summer)
Vanadium (UG/L)	19	19	19.0	MWD13-4	08 Sep 2005	30.0	M10B-01	2002 04 (Winter)
Zinc (UG/L)	18	19	21.0	M07C-06	08 Sep 2005	120	MWD13-3	2002 04 (Winter)
Aluminum (UG/L)	7	19	280	MWD13-4	08 Sep 2005	507	MWD13-4	2003 02 (Summer)
Iron (UG/L)	17	19	26000	MW-001	08 Sep 2005	60000	MW-001	2002 04 (Winter)
Calcium (MG/L)	19	19	190	M07C-06	08 Sep 2005	243	M07C-06	2003 02 (Summer)
Magnesium (MG/L)	18	19	56.0	M07C-06	08 Sep 2005	100	MW530-2	2004 04 (Winter)
Potassium (MG/L)	16	19	26.0	M10B-01	07 Sep 2005	55.0	MW530-2	2004 04 (Winter)
Sodium (MG/L)	19	19	320	MW530-2	08 Sep 2005	1700	MW530-2	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

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IR Site 9 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	5	5	0.54 J	D19-01	01 May 2006	4.8 J	D07C-01	2004 04 (Winter)
Arsenic (UG/L)	5	5	3.7 J	D09-01	27 Apr 2006	15.0	D09-01	2004 04 (Winter)
Barium (UG/L)	5	5	260	D13-01	08 Sep 2005	354	D13-01	2003 04 (Winter)
Beryllium (UG/L)	3	5	0.48 J	D19-01	01 May 2006	--	NA	NA
Cadmium (UG/L)	5	5	3.7 J	D09-01	27 Apr 2006	2.2 J	D07C-01	2004 04 (Winter)
Chromium (UG/L)	5	5	3.4 J	D09-01	27 Apr 2006	8.6 J	D19-01	2002 02 (Summer)
Cobalt (UG/L)	5	5	14.0	D09-01	07 Sep 2005	16.2	D09-01	2003 02 (Summer)
Copper (UG/L)	5	5	3.3 J	D19-01	08 Sep 2005	8.5 J	D07C-01	2004 04 (Winter)
Lead (UG/L)	4	5	5.4	D09-01	27 Apr 2006	1.0	D09-01	2004 02 (Summer)
Manganese (UG/L)	5	5	14000	D09-01	07 Sep 2005	17000	D09-01	2004 02 (Summer)
Molybdenum (UG/L)	3	5	0.76 J	D19-01	08 Sep 2005	16.3 J	D19-01	2003 04 (Winter)
Nickel (UG/L)	5	5	31.0	D19-01	01 May 2006	120 J	D09-01	2004 02 (Summer)
Selenium (UG/L)	5	5	63.0	D09-01	07 Sep 2005	28.0	D19-01	2002 04 (Winter)
Silver (UG/L)	3	5	10.0	D09-01	27 Apr 2006	0.41 J	D19-01	2004 02 (Summer)
Thallium (UG/L)	2	5	9.8	D07C-01	27 Apr 2006	2.6 J	D13-01	2003 04 (Winter)
Vanadium (UG/L)	4	5	5.7 J	D13-01	08 Sep 2005	24.0 J	D07C-01	2004 04 (Winter)
Zinc (UG/L)	5	5	120	D09-01	07 Sep 2005	76.0	D13-01	2004 02 (Summer)
Aluminum (UG/L)	3	5	10.0 J	D09-01	07 Sep 2005	260	D13-01	2002 02 (Summer)
Iron (UG/L)	5	5	6900	D09-01	07 Sep 2005	5500	D09-01	2002 04 (Winter)
Calcium (MG/L)	5	5	950	D09-01	07 Sep 2005	220000	D10B-02	2004 04 (Winter)
Magnesium (MG/L)	5	5	1100	D09-01	07 Sep 2005	150000	D10B-02	2004 04 (Winter)
Potassium (MG/L)	5	5	10.0 J	D19-01	08 Sep 2005	4900 J	D10B-02	2004 04 (Winter)
Sodium (MG/L)	5	5	4200	D09-01	07 Sep 2005	1300000	D10B-02	2004 04 (Winter)

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IR Site 9 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	19	19	800	M07C-06	08 Sep 2005	1120	MW547-3	2003 04 (Winter)
Sulfide (MG/L)	4	19	0.35 J	MWD13-3	09 Sep 2005	1.4	MWD13-4	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	18	19	800	M07C-06	08 Sep 2005	1120	MW547-3	2003 04 (Winter)
Alkalinity, carbonate (MG/L)	1	19	64.0	MWD13-4	01 May 2006	88.0	MWD13-4	2004 04 (Winter)
Alkalinity, hydroxide (MG/L)	1	19	120	MWD13-4	08 Sep 2005	130	MWD13-4	2004 02 (Summer)
Methane (MG/L)	18	19	13.0	M13-07	01 May 2006	17.0	M13-07	2004 02 (Summer)
Nitrate (MG/L)	13	19	41.0	MWOR-4	02 May 2006	9.8 J	M13-08	2003 04 (Winter)
Nitrite (MG/L)	5	19	0.76	MWOR-4	02 May 2006	0.34	M07C-06	2002 02 (Summer)
Chloride (MG/L)	19	19	380	MWOR-4	02 May 2006	2300	MW530-2	2004 04 (Winter)
Sulfate (as SO4) (MG/L)	18	19	150	MWD13-4	08 Sep 2005	400	MW-001	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

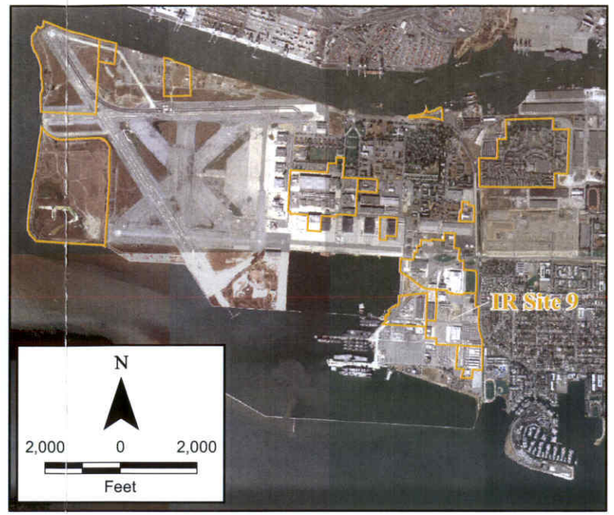
Table 10-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 9 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 9 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	5	5	360	D07C-01	27 Apr 2006	140000	D10B-02	2004 04 (Winter)
Alkalinity, bicarbonate (MG/L)	5	5	360	D07C-01	27 Apr 2006	140000	D10B-02	2004 04 (Winter)
Methane (MG/L)	3	5	0.027	D09-01	07 Sep 2005	0.027	D09-01	2004 04 (Winter)
Nitrate (MG/L)	4	5	44.0	D13-01	08 Sep 2005	50.0	D13-01	2002 04 (Winter)
Nitrite (MG/L)	1	5	0.76	D13-01	08 Sep 2005	0.92 J	D13-01	2003 04 (Winter)
Chloride (MG/L)	5	5	13000	D09-01	27 Apr 2006	2300000	D10B-02	2004 04 (Winter)
Sulfate (as SO4) (MG/L)	5	5	2000	D09-01	27 Apr 2006	400000	D10B-02	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

300 0 300

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004 National Geospatial-Intelligence Agency (NGA)

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FIGURE 10-1
IR SITE 9 GROUP
SITE AND WELL LOCATION MAP

2002 Projects\Ux-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Sites 9 Group\Annual 9 Group Location Map_NAD83.mxd

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 9 GW ContourS Spr 2006.mxd

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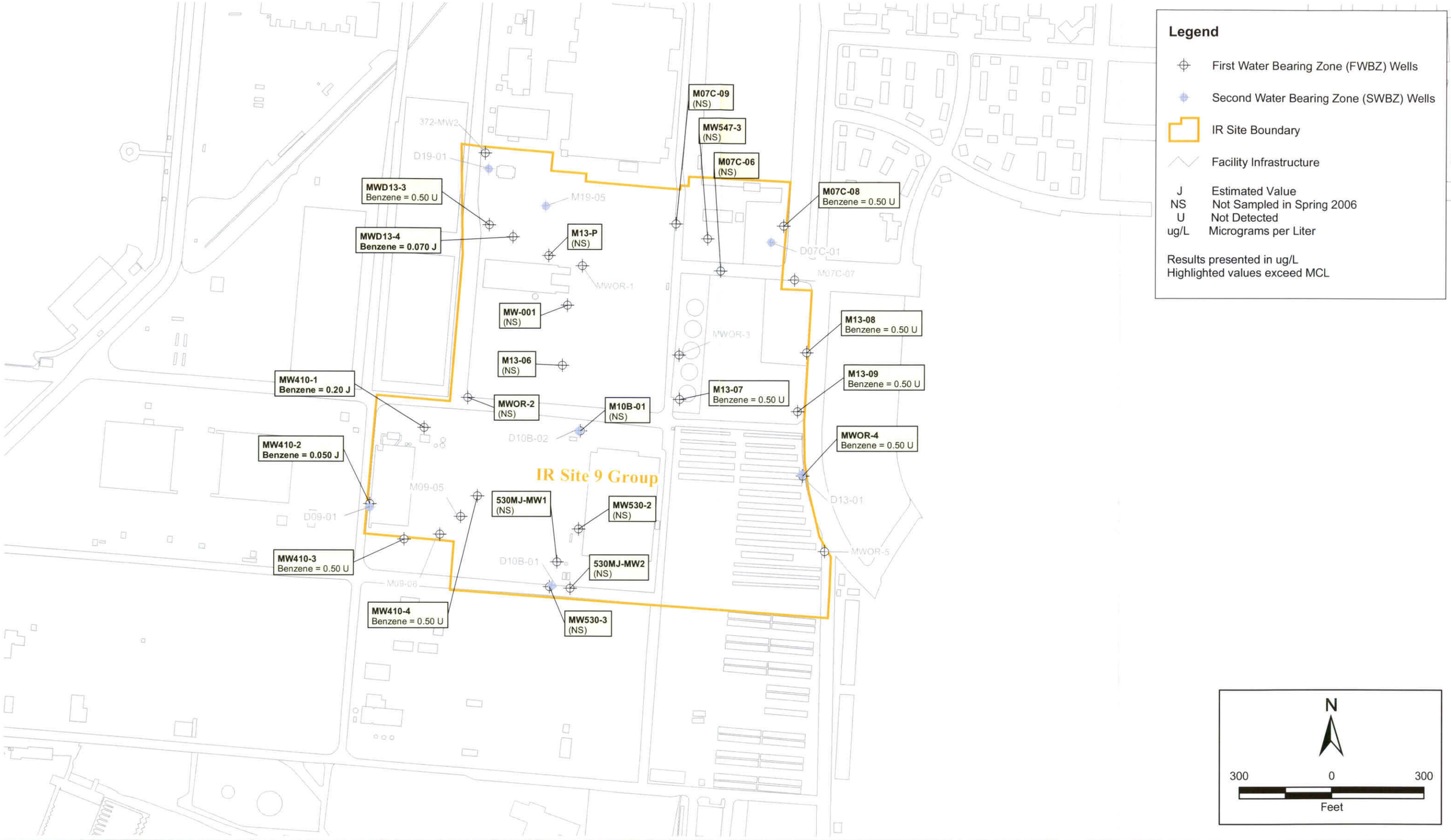
FIGURE 10-2
IR SITE 9
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 9 Chlorinated HydroC Map_SP.mxd

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FIGURE 10-3
IR SITE 9 GROUP
GROUNDWATER DISTRIBUTION OF BENZENE IN FWBZ WELLS
SPRING 2006

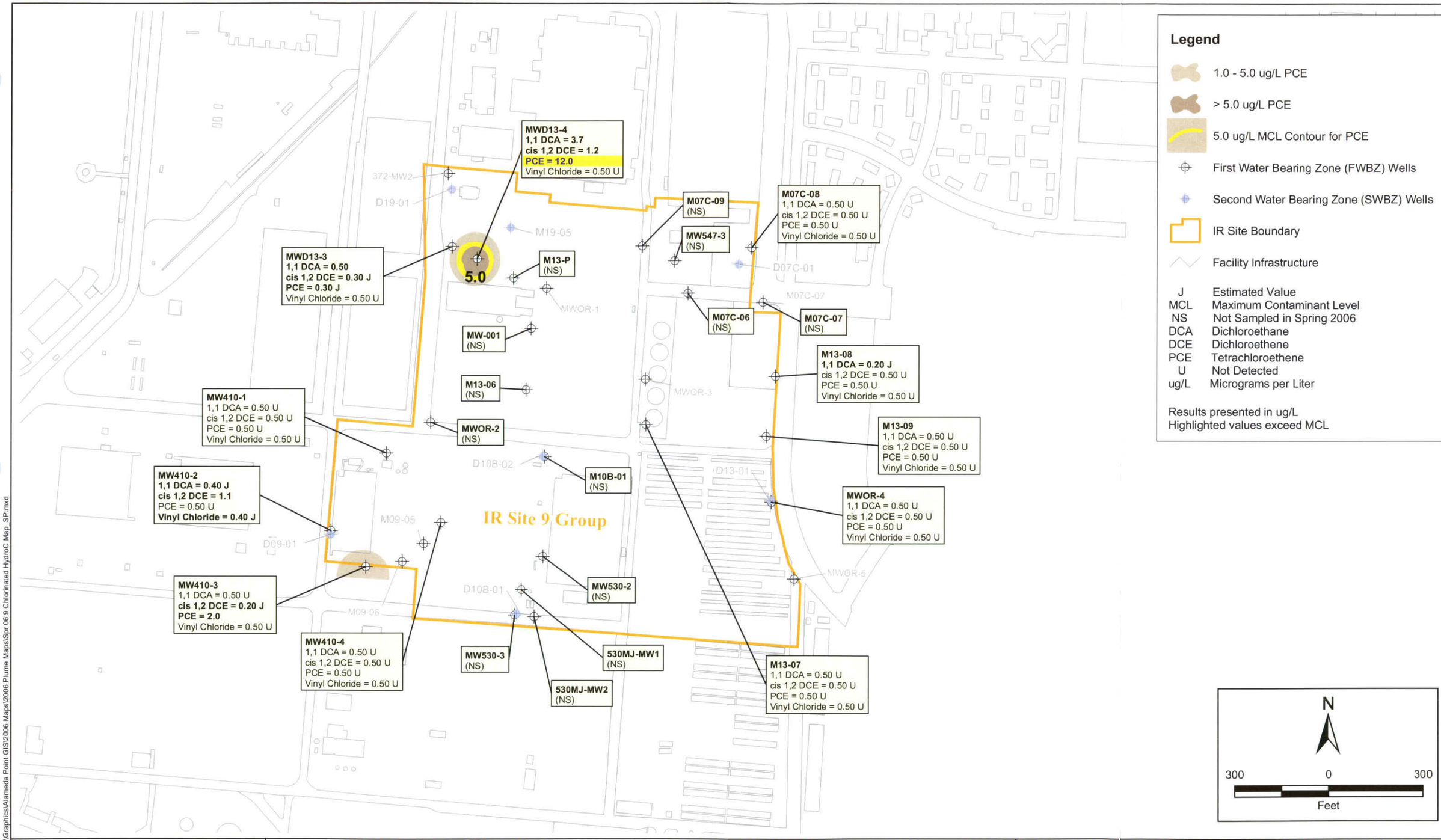

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FIGURE 10-4
IR SITE 9 GROUP
GROUNDWATER DISTRIBUTION OF
SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 9 Chlorinated HydroC Map_SP.mxd

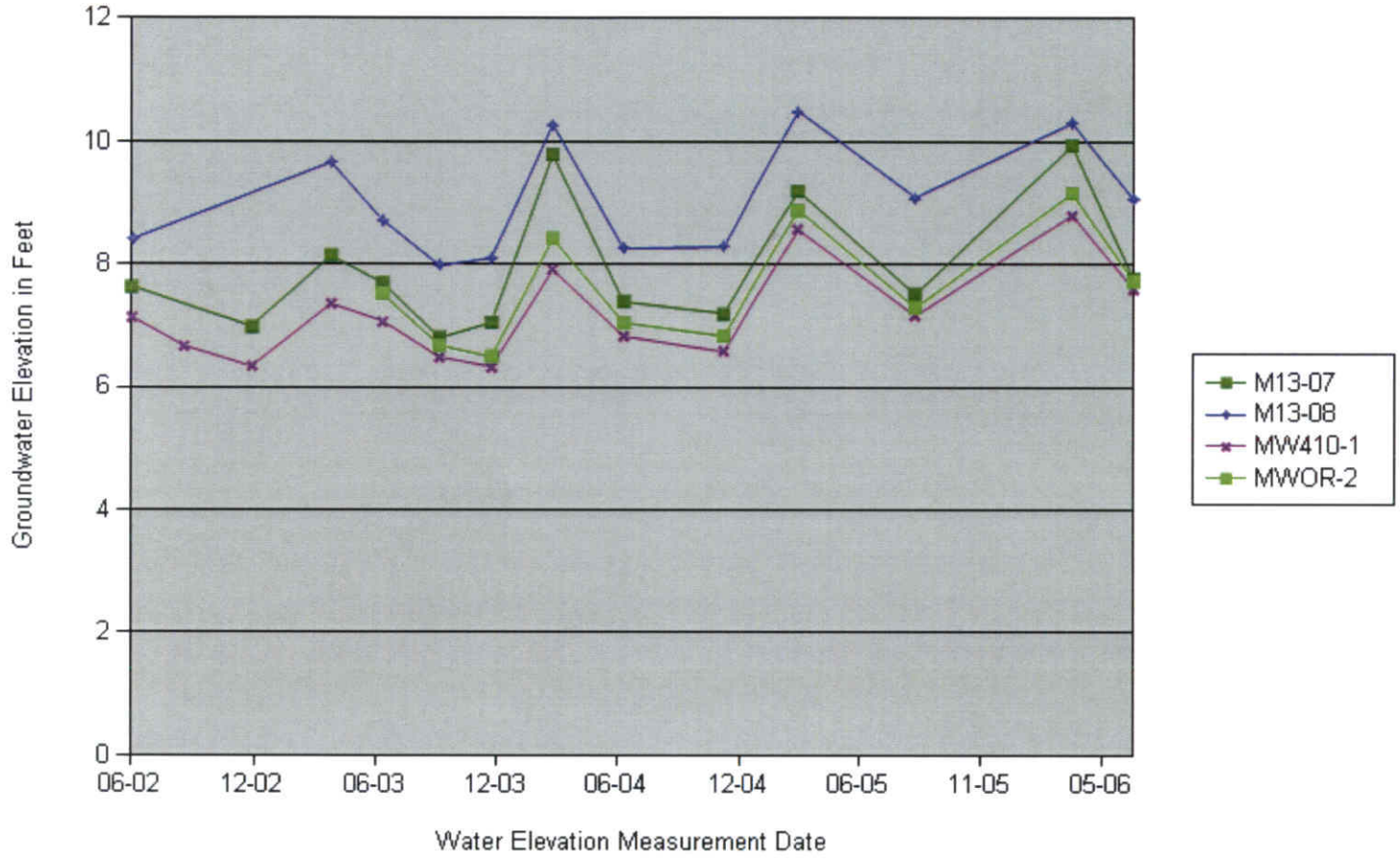

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FIGURE 10-5a
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 9:
EAST-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2006

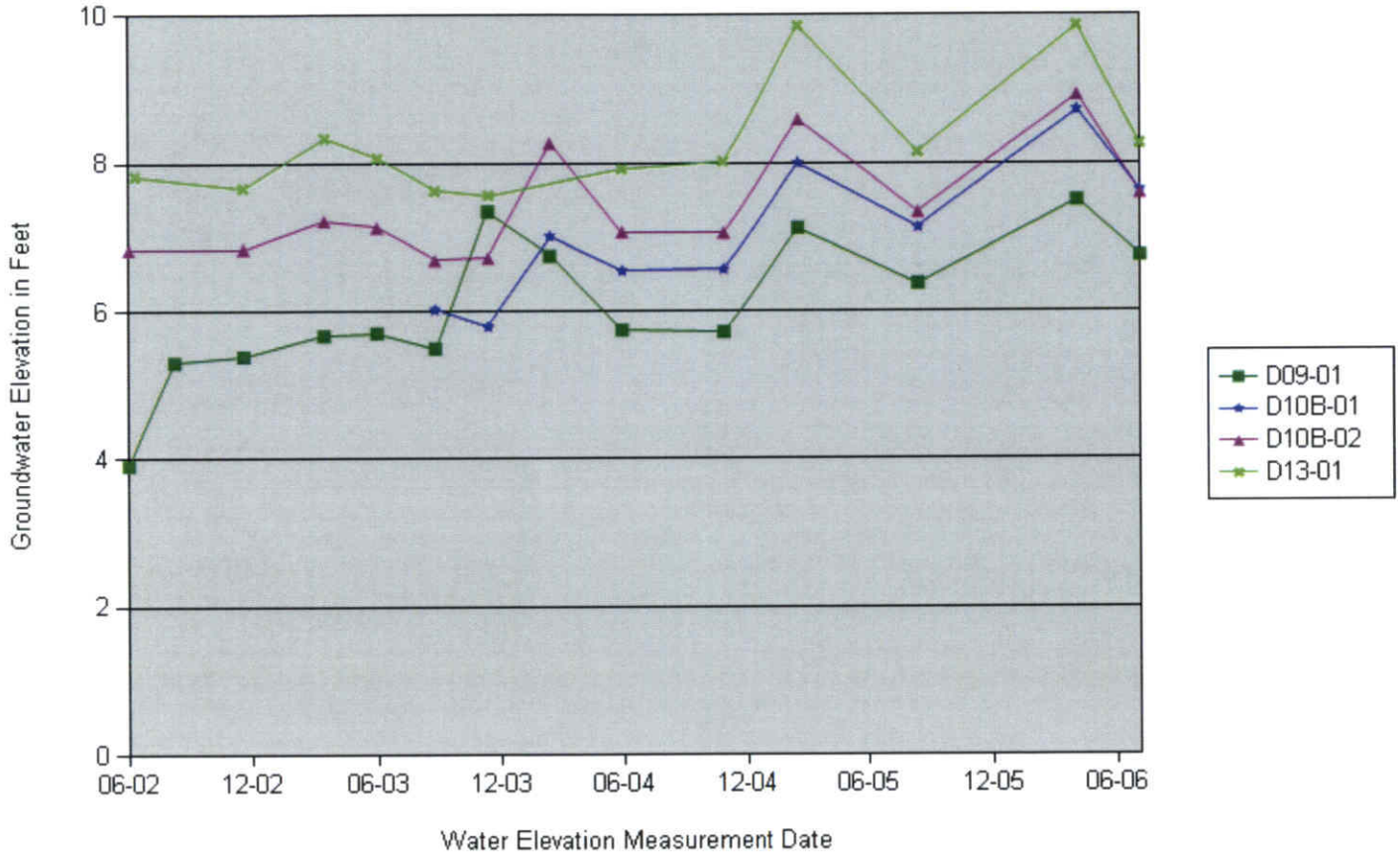

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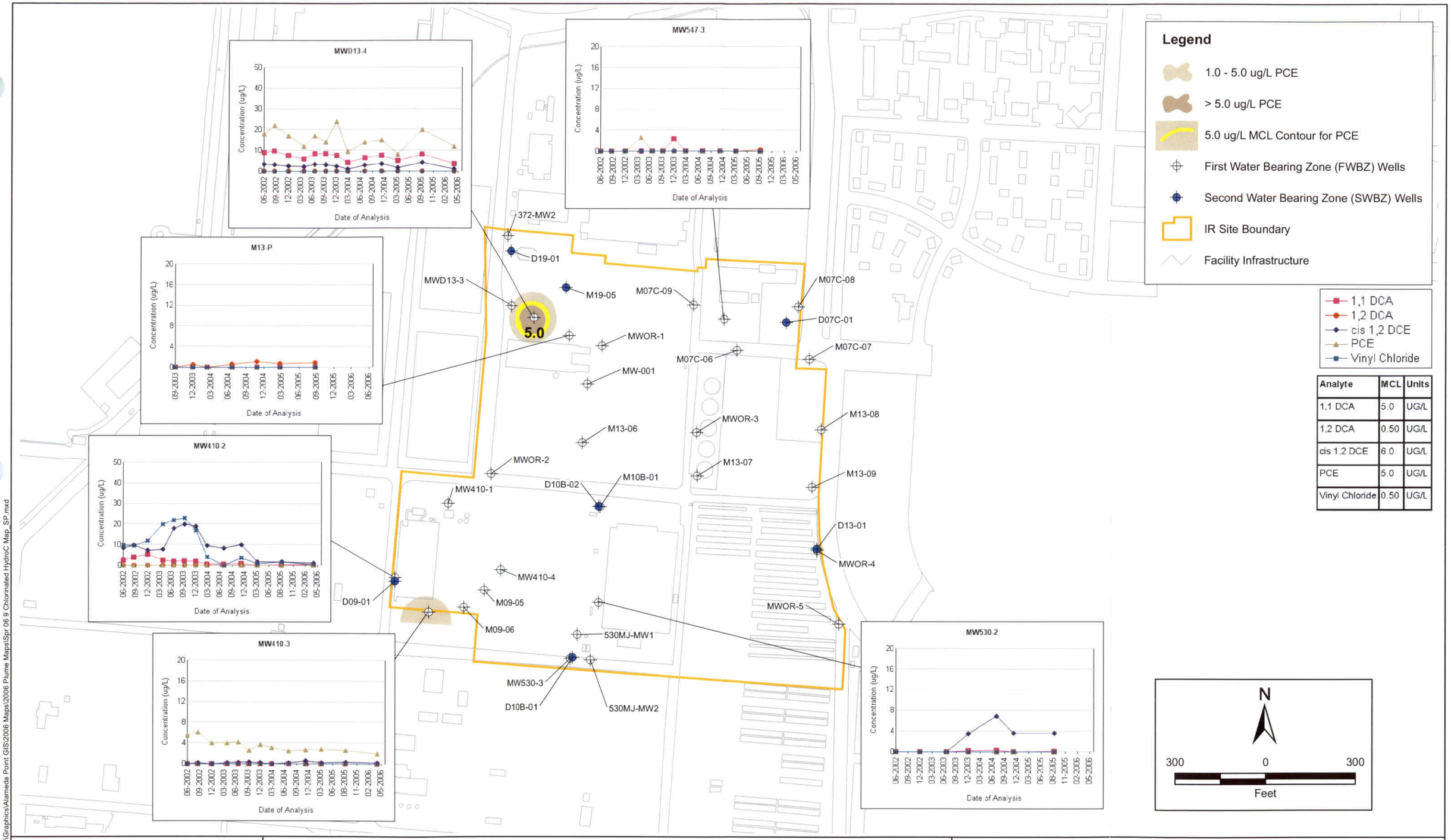
FIGURE 10-5b
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 9:
EAST-WEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2006



Analyte	MCL	Units
1,1 DCA	5.0	UG/L
1,2 DCA	0.50	UG/L
cis 1,2 DCE	6.0	UG/L
PCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 9 Chlorinated HydroC Map_SP.mxd

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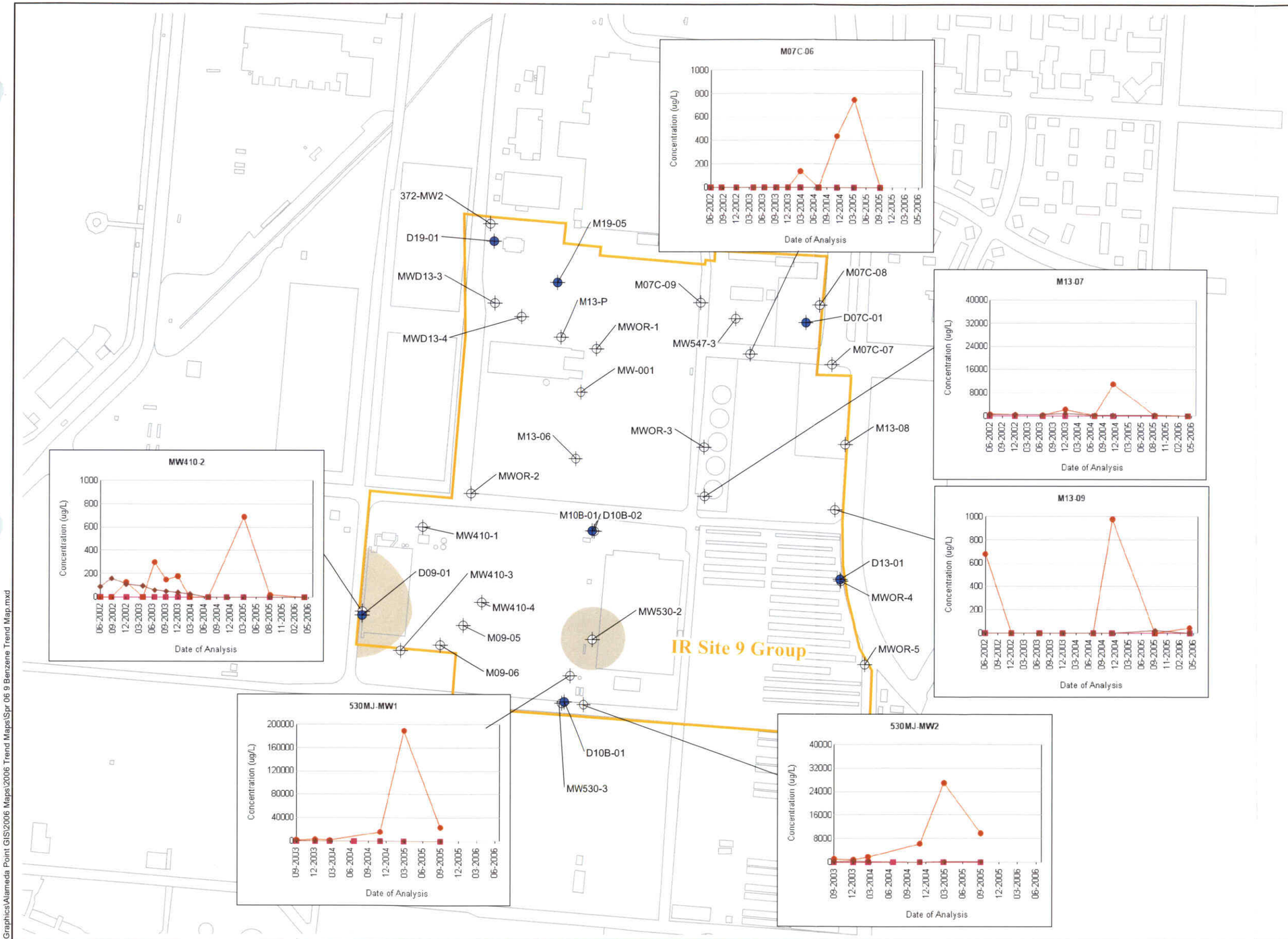
FIGURE 10-6
IR SITE 9 GROUP
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME IN SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

Legend

- 0.5 - 1 ug/L Benzene
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary

Benzene
TPH-Diesel
TPH-Gasoline

Analyte	MCL	Units
Benzene	1.0	UG/L
TPH-Diesel	--	UG/L
TPH-Gasoline	--	UG/L



N

300 0 300

Feet

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FIGURE 10-7
IR SITE 9 GROUP
GROUNDWATER CONCENTRATIONS OF BENZENE AND SELECTED PETROLEUM HYDROCARBONS OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Trend Maps\Spr 06 9 Benzene Trend Map.mxd

11.0 INSTALLATION RESTORATION SITE 14

IR Site 14, the Fire Training Area, is located in the northwestern section of Alameda Point (Figure 1-2), north of the former Runway 7/25 and adjacent to the Oakland Inner Harbor. The site is primarily open space that historically was used for equipment storage of airfield-related materials, with the northwestern portion of the site used for fire-fighter training activities. The site was originally designated an IR site based on concerns related to the fire training activities; petroleum-related constituents in soil were the primary concern. Subsequent investigations revealed the presence of chlorinated solvents in groundwater, the current focus of the groundwater investigation at the site (TtEMI, 1999b).

Potential sources of contamination at IR Site 14 include the following:

- Former Fire Training Area
- Former UST FS-1
- Building 528, aboveground storage tank at the northwest corner of Building 528, possible spills along storm drain
- RCRA Generator Accumulation Points 9 and 11
- Ordnance storage at Buildings 388, 120, 121, and 122
- Spills in open areas adjacent to generation accumulation point 9
- Suspected (early) Fire Training Area located near the southern extent of IR Site 14 (the known current location)

The Fire Training Area was constructed between 1973 and 1979 and included a concrete pad surrounded on three sides by an earthen berm. ANSULITE® fire-fighting foam, carbon dioxide, potassium chloride, and Purple K (a dry chemical extinguishing agent) were used to extinguish training fires. A sump was located in the northeastern corner of the concrete pad within the Fire Training Area. The sump was apparently used for the collection of runoff from fire training activities. The fire department stopped burning in the area circa 1986 (Shaw, 2004). The site layout, showing groundwater monitoring well locations, is presented on Figure 11-1.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 14 included sampling and analysis of nine groundwater monitoring wells (seven FWBZ wells

and two SWBZ wells). Four additional FWBZ groundwater monitoring wells are used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 11-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 11-1.

11.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 13 groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 14. The results are presented along with previously collected water-level data in Table 11-2. Groundwater flow direction and gradient are discussed in Section 11.4.1, and trends in groundwater elevation are discussed in Section 11.4.4.

11.2 ANALYTICAL PARAMETERS

Groundwater samples collected from monitoring wells at IR Site 14 during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- TPH as Diesel, Jet Fuel, and Motor Oil by EPA Method 8015B
- TPH as Gasoline by EPA Method 8015B
- VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 11-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

11.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 through Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 11-3 through 11-6 as follows:

- Table 11-3, "Groundwater Sample Analytical Results at IR Site 14: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006."
- Table 11-4, "Groundwater Sample Analytical Results at IR Site 14: Dissolved Metals, Summer 2002 through Spring 2006."
- Table 11-5, "Groundwater Sampling Field Parameters at IR Site 14, Summer 2002 through Spring 2006."
- Table 11-6, "Groundwater Sample Analytical Results at IR Site 14: Natural Attenuation Parameters, Summer 2002 through Spring 2006."

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

11.4 DISCUSSION OF RESULTS

Concentrations of extractable TPH (predominantly diesel-range hydrocarbons) and chlorinated hydrocarbons (PCE, TCE, cis-1,2-DCE, 1,1-DCA, vinyl chloride, and related compounds) have been commonly detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ at IR Site 14. Groundwater concentrations of predominantly diesel-range

hydrocarbons exceeding 100 µg/L were reported from two wells in the current sampling year (wells M101-A and M14-01) (Table 11-3).

The following analytes were detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling year: **cis-1,2-DCE, 1,1-DCA, and vinyl chloride** (Table 11-3). The distribution of chlorinated hydrocarbons in FWBZ groundwater monitoring wells at IR Site 14 is discussed more fully in Section 11.4.2.

Low concentrations of TPH diesel, motor oil and/or gasoline were detected in groundwater collected from two monitoring wells screened in the FWBZ during the current sampling year (Table 11-3) (maximum of 180 J µg/L motor oil – estimated value at M101-A). In the SWBZ, no organic constituents were detected at concentrations exceeding MCLs, and no petroleum was detected, in either of the SWBZ wells sampled.

Arsenic was detected above its MCL of 10 µg/L at a maximum concentration of 11 µg/L in M101-A well during the Summer 2005 event, but was not detected in the Spring 2006 sampling event (Table 11-4). No dissolved metals were detected at concentrations exceeding MCLs in SWBZ wells during the Summer 2005 to Spring 2006 sampling year (Table 11-4).

11.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 11-2. Groundwater flow direction in the FWBZ at IR Site 14 is towards the north-northeast – towards Oakland Inner Harbor - at a gradient of approximately 0.015 feet per foot. It is possible that groundwater monitoring wells along the shoreline limits of IR Site 14 might be tidally influenced, but these wells were not included in the recent tidal study conducted by Shaw in 2004 (Shaw, 2005).

Groundwater flow direction in the SWBZ at IR Site 14 is towards the north at a gradient of approximately 0.005 feet per foot. Water levels in the SWBZ wells at IR Site 14 are generally 1 to 3 feet lower than nearby FWBZ wells, indicating an overall downward vertical gradient. Vertical gradients are discussed more fully in Section 11.4.4.

11.4.2 Groundwater Contaminant Distribution

Concentrations of chlorinated hydrocarbons are present within a wider zone of TPH-impacted groundwater at IR Site 14. The approximate distribution of chlorinated hydrocarbons in groundwater is shown on Figure 11-3. Cis-1,2-DCE was selected as an indicator compound to show the distribution of chlorinated organic constituents in groundwater. All volatile organic constituents that were detected at concentrations exceeding MCLs during the current sampling year (Summer 2005 through Spring 2006) fall within the plume boundaries shown on Figure 11-3.

Among IR Site 14 metals results for the current sampling year, only arsenic and thallium exceeded an MCL. Thallium exceedances were at two wells, but in both cases were the single exceedances since 2002; thus these MCL exceedances do not represent ongoing contamination. For arsenic, well M101-A has consistently exceeded MCLs, and is in an area known to be contaminated with chlorinated VOCs and petroleum hydrocarbons. The arsenic-contaminated area is confined within the chlorinated VOC plume.

11.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 11-7, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 11-7 also lists the historical maximum concentration (Summer 2002 through Spring 2005) for each analyte.

In general, concentrations of analytes detected during the Summer 2005 through Spring 2006 sampling year were similar to those found in previous sampling years with the following exceptions:

- FWBZ concentrations of TPH diesel (4,900 µg/L), jet fuel (1,200 µg/L), and motor oil (1,100 µg/L) detected during the Fall/Winter 2004 sampling event were the highest concentrations detected at IR Site 14 to date. The current year's maximum detected TPH concentrations in FWBZ groundwater were significantly lower (78, 60, and 180 J µg/L, respectively) than those detected during the 2004 sampling event (Table 11-7).

Differences with respect to MCLs are:

- Benzene exceeded its MCL in historical samples but was less than its MCL for the current sampling year.

11.4.4 Trends in Groundwater Elevation Data

The following hydrographs were prepared for the Spring 2006 Annual Report:

- Figure 11-4a, "Trends in Groundwater Elevations at IR Site 14: North-South Oriented FWBZ Wells."
- Figure 11-4b, "Trends in Groundwater Elevations at IR Site 14: Paired Wells (FWBZ Well M101-A and SWBZ Well M101-C)."

The following observations can be made from viewing the hydrographs:

1. Groundwater elevations for FWBZ and SWBZ wells at IR Site 14 show a consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall (Figures 11-4a and 11-4b).
2. Figure 11-4b indicates a consistent downward vertical gradient between the co-located FWBZ and SWBZ wells; i.e. groundwater elevations are typically 1 to 2 feet higher in FWBZ well M101-A than in nearby SWBZ well M101-C. A downward vertical gradient indicates that contaminant migration is possible from shallow (FWBZ) to deeper (SWBZ) groundwater if a conduit exists across the base of the FWBZ.
3. In general, the hydrographs for IR Site 14 wells indicate a slight overall increase in groundwater elevations over time, i.e. peak seasonal elevations for most wells have shown a tendency to increase since 2002.

11.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of diesel-range TPH and chlorinated hydrocarbons (predominantly cis-1,2-DCE, 1,1-DCA, and vinyl chloride) have been consistently detected in groundwater at IR Site 14 since monitoring was initiated in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figure 11-5. In the two wells showing discernible trends, the concentrations of these contaminants have been decreasing over time during the monitoring program.

Concentrations of chlorinated hydrocarbons above MCLs have persisted over time, with vinyl chloride remaining significantly above its MCL at several locations (Figure 11-5).

11.5 CONCLUSIONS AND RECOMMENDATIONS

As discussed in the previous sub-sections, IR Site 14 contaminants of concern include several chlorinated hydrocarbons, as presented in the plume diagram on Figure 11-3. Concentrations over time are generally decreasing for site contaminants, but several remain significantly above MCLs.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 11-1
Groundwater Monitoring Summary, IR Site 14 - Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds			Inorganic Compounds	Natural Attenuation Parameters				
				TPH- E as diesel, jet fuel, motor oil (EPA 8015B)	TPH-P as gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron by (Hach 8146)
Groundwater Monitoring Program Wells												
First	M101-A	Fill	2.5 - 12.5	X	X	X	X	X	X	X	X	X
	M112-A	Fill	2.5 - 12.5	X	X	X	X	X	X	X	X	X
	M113-A	Fill-BSU	2 - 12	X	X	X	X	X	X	X	X	X
	M114-A	Fill	2 - 12	X	X	X	X	X	X	X	X	X
	M14-01	Fill-BSU	4 - 14	X	X	X	X	X	X	X	X	X
	M14-02	Fill-BSU	4 - 14	X	X	X	X	X	X	X	X	X
	M14-03	Fill-BSU	4 - 14	X	X	X	X	X	X	X	X	X
Second	D14-01	Merritt-USA	65 - 75	X	X	X	X	X	X	X	X	X
	M101-C	BSU	48-5 - 58.5	X	X	X	X	X	X	X	X	X
Non-Program Wells, Water Level Only												
First	M15-01	Fill-BSU	3.5-18.5	-	-	-	-	-	-	-	-	-
	M15-02	Fill-BSU	3 - 13	-	-	-	-	-	-	-	-	-
	M15-03	Fill-BSU	5 - 15	-	-	-	-	-	-	-	-	-
	FS1MJ-MW-3	Fill-BSU	2.3 - 10.2	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at the Summer 2005 sampling event

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 11-2
Summary of Groundwater Level Measurements at IR Site 14
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	FS1MJ-MW-3 ‡	9.4	8.95	08/22/05	4.65	4.30
		9.4	8.95	02/28/05	2.21	6.74
		9.4	8.95	11/09/04	2.91	6.04
		9.4	8.95	06/15/04	5.64	3.31
		9.4	8.95	03/02/04	2.80	6.15
		9.4	8.95	12/03/03	4.50	4.45
		9.4	8.95	09/16/03	5.11	3.84
		9.4	8.95	06/24/03	4.80	4.15
		9.4	8.95	04/08/03	3.92	5.03
First	M101-A	9.5	9.45 *	04/11/06	0.73	8.72
		9.5	9.45 *	08/22/05	4.04	5.41
		9.5	9.45 *	02/28/05	0.03	9.42
		9.5	9.45 *	11/09/04	2.09	7.36
		9.5	9.45 *	06/15/04	3.91	5.54
		9.5	9.45 *	03/02/04	0.55	8.90
		9.5	9.45 *	12/03/03	3.63	5.82
		9.5	9.45 *	09/16/03	4.34	5.11
		9.5	9.45 *	06/24/03	3.65	5.80
		9.5	9.45 *	04/08/03	2.50	6.95
		9.5	9.45 *	12/12/02	3.66	5.79
		9.5	9.45 *	09/12/02	4.35	5.10
		9.5	9.45 *	06/27/02	3.90	5.55
First	M112-A	10.2	9.91 *	04/11/06	1.00	8.91
		10.2	9.91 *	08/22/05	4.64	5.27
		10.2	9.91 *	02/28/05	0.80	9.11
		10.2	9.91 *	11/09/04	4.04	5.87
		10.2	9.91 *	06/15/04	4.48	5.43
		10.2	9.91 *	03/02/04	1.14	8.77
		10.2	9.91 *	12/03/03	4.57	5.34
		10.2	9.91 *	09/16/03	4.91	5.00
		10.2	9.91 *	06/24/03	4.20	5.71
		10.2	9.91 *	04/08/03	3.22	6.69
		10.2	9.91 *	12/20/02	0.21 §	9.70
		10.2	9.91 *	09/12/02	4.94	4.97
		10.2	9.91 *	06/27/02	4.45	5.46
First	M113-A	9.2	8.83 *	04/11/06	0.13	8.70
		9.2	8.83 *	08/22/05	3.59	5.24
		9.2	8.83 *	02/28/05	0.00 †	8.83
		9.2	8.83 *	11/09/04	2.76	6.07
		9.2	8.83 *	06/15/04	3.46	5.37
		9.2	8.83 *	03/02/04	0.05	8.78
		9.2	8.83 *	12/03/03	3.30	5.53
		9.2	8.83 *	09/16/03	3.95	4.88
		9.2	8.83 *	06/24/03	3.26	5.57
		9.2	8.83 *	04/08/03	2.25	6.58
		9.2	8.83 *	12/23/02	0.00 §	8.83
		9.2	8.83 *	09/12/02	3.95	4.88
		9.2	8.83 *	07/01/02	3.44	5.39

Table 11-2
Summary of Groundwater Level Measurements at IR Site 14
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M114-A	9.0	8.71 *	04/11/06	NM	NC
		9.0	8.71 *	08/22/05	3.10	5.61
		9.0	8.71 *	02/28/05	Well Submerged	NC
		9.0	8.71 *	11/09/04	1.19	7.52
		9.0	8.71 *	06/15/04	2.95	5.76
		9.0	8.71 *	03/02/04	0.00 †	8.71
		9.0	8.71 *	12/03/03	2.68	6.03
		9.0	8.71 *	09/16/03	3.42	5.29
		9.0	8.71 *	06/24/03	2.73	5.98
		9.0	8.71 *	04/08/03	1.31	7.40
		9.0	8.71 *	12/12/02	2.65	6.06
		9.0	8.71 *	09/12/02	3.47	5.24
		9.0	8.71 *	06/26/02	3.00	5.71
First	M14-01	8.9	8.47 *	04/17/06	5.40	3.07
		8.9	8.47 *	08/22/05	4.80	3.67
		8.9	8.47 *	02/28/05	3.00	5.47
		8.9	8.47 *	11/09/04	3.39	5.08
		8.9	8.47 *	06/15/04	4.55	3.92
		8.9	8.47 *	03/02/04	3.80	4.67
		8.9	8.47 *	12/03/03	5.02	3.45
		8.9	8.47 *	09/16/03	5.15	3.32
		8.9	8.47 *	06/24/03	4.45	4.02
		8.9	8.47 *	04/08/03	4.80	3.67
		8.9	8.47 *	12/20/02	1.41 §	7.06
		8.9	8.47 *	09/12/02	3.59	4.88
		8.9	8.47 *	06/26/02	4.30	4.17
First	M14-02	9.3	8.91 *	04/17/06	2.75	6.16
		9.3	8.91 *	08/22/05	5.92	2.99
		9.3	8.91 *	02/28/05	3.20	5.71
		9.3	8.91 *	11/09/04	3.20	5.71
		9.3	8.91 *	06/15/04	6.48	2.43
		9.3	8.91 *	03/02/04	3.95	4.96
		9.3	8.91 *	12/03/03	5.00	3.91
		9.3	8.91 *	09/16/03	5.41	3.50
		9.3	8.91 *	06/24/03	5.05	3.86
		9.3	8.91 *	04/08/03	4.92	3.99
		9.3	8.91 *	12/20/02	1.79 §	7.12
		9.3	8.91 *	09/12/02	4.33	4.58
		9.3	8.91 *	06/27/02	6.50	2.41
First	M14-03	10.3	9.91 *	04/17/06	1.95	7.96
		10.3	9.91 *	08/22/05	5.41	4.50
		10.3	9.91 *	02/28/05	1.65	8.26
		10.3	9.91 *	11/09/04	4.97	4.94
		10.3	9.91 *	06/15/04	5.01	4.90
		10.3	9.91 *	03/02/04	2.00	7.91
		10.3	9.91 *	12/03/03	5.56	4.35
		10.3	9.91 *	09/16/03	6.02	3.89
		10.3	9.91 *	06/24/03	4.65	5.26

Table 11-2
Summary of Groundwater Level Measurements at IR Site 14
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M14-03	10.3	9.91 *	04/08/03	3.90	6.01
		10.3	9.91 *	12/20/02	3.05 §	6.86
		10.3	9.91 *	09/12/02	5.76	4.15
		10.3	9.91 *	06/27/02	6.00	3.91
Second	D14-01	10.2	9.99 *	04/11/06	5.14	4.85
		10.2	9.99 *	08/22/05	6.85	3.14
		10.2	9.99 *	02/28/05	4.50	5.49
		10.2	9.99 *	11/09/04	5.47	4.52
		10.2	9.99 *	06/15/04	7.28	2.71
		10.2	9.99 *	03/02/04	5.10	4.89
		10.2	9.99 *	12/03/03	5.85	4.14
		10.2	9.99 *	09/16/03	5.92	4.07
		10.2	9.99 *	06/24/03	6.00	3.99
		10.2	9.99 *	04/08/03	6.22	3.77
		10.2	9.99 *	12/20/02	4.47 §	5.52
		10.2	9.99 *	09/12/02	4.97	5.02
		10.2	9.99 *	07/15/02	7.52	2.47
Second	M101-C	9.7	9.43 *	04/11/06	1.79	7.64
		9.7	9.43 *	08/22/05	5.02	4.41
		9.7	9.43 *	02/28/05	2.07	7.36
		9.7	9.43 *	11/09/04	4.37	5.06
		9.7	9.43 *	06/15/04	5.05	4.38
		9.7	9.43 *	03/02/04	1.47	7.96
		9.7	9.43 *	12/03/03	4.52	4.91
		9.7	9.43 *	09/16/03	5.85	3.58
		9.7	9.43 *	06/24/03	5.81	3.62
		9.7	9.43 *	04/08/03	3.55	5.88
		9.7	9.43 *	12/12/02	4.62	4.81
		9.7	9.43 *	09/12/02	4.73	4.70
		9.7	9.43 *	07/15/02	4.71	4.72

Notes:

BTOC = below top of casing

msl = mean sea level

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 11-3

Groundwater Sample Analytical Results at IR Site 14: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M101-A	2006 01 (Spring)	**69.0**	< 50.0	**98.0 J**	**75.0**	**242**	**0.10 J**	< 0.50	**0.10 J**	< 0.50	**0.070 J**	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	**1.9**	< 0.50	**16.0**	**1.0**	**31.0**	< 0.50	**0.80**	**47.0**
		2005 02 (Summer)	< 50.0	< 50.0	**180 J**	**38.0 J**	**218**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	**0.30 J**	< 0.50	**1.1**	**0.40 J**	**12.0**	< 0.50	**0.20 J**	**0.90**
		2004 04 (Winter)	**4,900**	**1,200**	**1,100**	**160**	**7,360**	**0.20 J**	**2.8**	**1.8**	**1.1**	**3.4**	**0.90 J**	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.20 J**	**2.3**	**2.6**	< 0.50	**27.0**	**1.3**	**65.0**	< 0.50	**2.7**	**51.0**
		2004 02 (Summer)	< 50.0	**66.0**	< 300	**160**	**226**	**0.20 J**	**1.2**	**0.80**	**0.50 J**	**1.8**	**0.30 J**	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.10 J**	**0.70**	**0.40 J**	< 0.50	**8.7**	**0.80**	**63.0**	< 0.50	**0.40 J**	**18.0**
		2003 04 (Winter)	< 190	< 280	< 190	**48.0 J**	**48.0**	**0.20 J**	**0.60 J**	**1.3**	< 1.0	**1.1**	< 2.0	< 5.0	< 1.0	**0.24 J**	< 1.0	< 1.0	**1.2**	**0.74 J**	< 1.0	**2.9**	**1.3**	**37.0**	< 0.50	**0.91 J**	**41.0**
		2003 02 (Summer)	**810**	< 280	< 190	**180**	**990**	< 0.50	**7.1**	**1.7**	**0.97 J**	**8.0**	**2.3**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.72 J**	**0.46 J**	< 1.0	**35.0**	**1.5**	**61.0**	< 0.50	**1.7**	**200**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**33.0 J**	**33.0**	< 0.50 J	**0.20 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.70 J**	**3.3**	< 0.50 J	**17.0**	**1.0**	**9.1**	< 0.50	< 0.50	**52.0**
		2002 02 (Summer)	**64.0**	**110**	**60.0 J**	**540**	**774**	< 0.50	**12.0**	**3.4**	**3.0**	**11.0**	**2.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.6**	**1.1**	**0.50 J**	**270**	**1.9**	**150**	< 0.50	**5.0**	**300**
	M112-A	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	**0.30 J**	< 0.50	**23.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**610**	< 50.0	**970**	< 50.0	**1,580**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	**0.30 J**	< 0.50	**1.3 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**1,100**	< 50.0	**680**	< 50.0	**1,780**	**0.30 J**	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	**130**	< 1.3	**0.90 J**	< 1.3	< 1.3	**11.0**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**5.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.2**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**84.0**	< 1.0	**0.31 J**	< 0.50	< 1.0	**3.4**
		2003 03 (Fall)	**100 J**	< 290	**210**	< 50.0	**310**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.34 J**	< 1.0	**40.0**	< 1.0	< 1.0	< 0.50	< 1.0	**1.6**
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.24 J**	< 1.0	**3.4**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	**0.60 J**	< 0.50	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	**0.50**	< 0.50	**72.0**	< 0.50	**0.40 J**	< 0.50	< 0.50	**7.4**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**35.0**	< 0.50	**0.20 J**	**0.10 J**	< 0.50	**1.1**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**7.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M113-A	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	< 0.50	**4.6**	< 0.50	< 0.50	**7.4**
		2005 01 (Spring)	**1,000**	**98.0**	**720**	< 50.0	**1,818**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.5 J**	< 0.50	**0.60 J**	< 0.50	< 0.50	**6.2 J**
		2004 04 (Winter)	**2,400**	**260**	**800**	< 50.0	**3,460**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**6.8**	**0.20 J**	**3.2**	< 0.50	< 0.50	**11.0**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	**1.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.5**	< 0.50	**3.9**	< 0.50	< 0.50	**15.0**
		2004 01 (Spring)	**220**	< 280	**160 J**	< 50.0	**380**	**1.4**	< 1.0	< 1.0	< 1.0	< 1.0	**2.6**	< 5.0	< 1.0	**0.23 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.7**	< 1.0	**3.0**	< 0.50	< 1.0	**32.0**
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	**0.21 J**	**2.9**	< 0.50	< 1.0	**4.1**
		2003 03 (Fall)	**150 J**	< 290	**150 J**	< 50.0	**300**	**0.38 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.0**	< 1.0	**4.9**	< 0.50	< 1.0	**10.0**
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	**0.91**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	**0.27 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.9**	< 1.0	**3.6**	< 0.50	< 1.0	**17.0**
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**20.0 J**	**20.0**	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**1.9**	< 0.50	**3.6**	< 0.50	< 0.50	**15.0**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	**1.1**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.3**	< 0.50	**3.2**	< 0.50	< 0.50	**36.0**
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.1**	< 0.50 J	**4.7**	< 0.50	< 0.50	**11.0**
		2002 02 (Summer)	< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	**1.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.9**	< 0.50	**6.0**	< 0.50	< 0.50	**31.0**
	M114-A	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**640**	< 50.0	**610**	< 50.0	**1,250**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**410**	< 50.0	**460**	< 50.0	**870**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0 J	< 50.0 J	< 300 J	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50 UJ	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 11-3

Groundwater Sample Analytical Results at IR Site 14: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M114-A	2003 03 (Fall)	**100 J**	< 290	**160 J**	< 50.0	**260**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	**21.0 J**	**21.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M14-01	2006 01 (Spring)	**78.0**	**60.0**	< 300	< 50.0	**138**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.080 J**	< 0.50	**1.8**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.2**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**2,100**	**440**	**720**	< 50.0	**3,260**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**1,800**	**210**	**580**	< 50.0	**2,590**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.0**	< 0.50	**0.60**	< 0.50	< 0.50	**0.20 J**
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	**180 J**	< 280	< 190	< 50.0	**180**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	**0.37 J**	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.8**	< 1.0	**0.35 J**	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**250**	< 290	**130 J**	< 50.0	**380**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.3**	< 1.0	**0.46 J**	< 0.50	< 1.0	**0.30 J**
		2003 02 (Summer)	< 190	< 280 UJ	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	**2.2**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	**19.0 J**	**19.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**2.6**	< 0.50	**0.50**	< 0.50	< 0.50	**0.10 J**
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**1.3**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.9**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50
	M14-02	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**750**	< 50.0	**550**	< 50.0	**1,300**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**900**	**52.0**	**600**	< 50.0	**1,552**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	**0.34 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M14-03	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	**570**	< 50.0	**600**	< 50.0	**1,170**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**830**	< 50.0	**520**	< 50.0	**1,350**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**100 J**	< 290	**170 J**	< 50.0	**270**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 11-3

Groundwater Sample Analytical Results at IR Site 14: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
				TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:		**NA**	**NA**	**NA**	**NA**	**NA**	**1.0**	**150**	**300**	**1,750**	**1,750**	**NA**	**13.0**	**70.0**	**600**	**NA**	**5.0**	**5.0**	**5.0**	**6.0**	**6.0**	**10.0**	**5.0**	**0.50**	**200**	**0.50**
		BV:		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M14-03	2003 02 (Summer)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)		< 50.0	< 50.0	**230 J**	< 50.0	**230**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D14-01	2005 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)		< 190	< 290	< 190	< 50.0	< 290	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)		< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)		< 50.0	< 50.0	**150 J**	< 50.0	**150**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M101-C	2005 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)		**52.0**	< 50.0	< 300	< 50.0	**52.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)		**95.0**	< 50.0	**110 J**	< 50.0	**205**	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)		< 190	< 280	< 190	< 50.0	< 280	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)		**240**	< 280	**230**	< 50.0	**470**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)		< 190	< 290	< 190	< 50.0	< 290	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 02 (Summer)		< 200	< 300 UJ	< 200	< 50.0	< 300	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)		< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)		< 50.0	< 50.0	< 300	< 50.0 UJ	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50
		2002 02 (Summer)		< 50.0 UJ	< 50.0 UJ	< 300 UJ	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 11-4
Groundwater Sample Analytical Results at IR Site 14: Dissolved Metals
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
M101-A	2006 01 (Spring)		0.49 J	< 500	-	< 200	< 500	< 500	-	< 500	0.14 J	-	< 0.20	-	< 500	< 500	< 500	< 500	-	< 2,000	-	-	-	-	-	-
	2005 02 (Summer)		0.26 J	**11.0**	**230**	< 2.0	< 5.0	3.1 J	0.19 J	0.51 J	< 3.0	830 J	< 0.20	< 20.0	2.1 J	1.7 J	< 5.0	< 5.0	3.0 J	9.0 J	< 100	**2,800**	80.0	46.0	29.0 J	790
	2005 01 (Spring)		1.1	**18.0**	**170**	< 2.0	< 5.0	**3.9 J**	0.67 J	**3.8 J**	< 3.0	**1,200**	< 0.20	**10.0 J**	6.4 J	**3.5 J**	< 5.0	< 5.0	2.5 J	**13.0 J**	< 100	**3,900**	140	57.0	19.0	340
	2004 04 (Winter)		0.49 J	**21.0**	**320**	< 2.0	< 5.0	**4.2 J**	0.88 J	**3.7 J**	0.33 J	**2,100**	< 0.20	4.5 J	7.2 J	**5.4**	< 5.0	< 5.0	3.7 J	**14.0 J**	27.0 J	**6,000**	120	55.0	26.0	420
	2004 02 (Summer)		< 1.0	**11.0**	**260**	< 2.0	< 5.0	< 10.0	0.11 J	< 10.0	< 1.0	**1,200**	< 0.20	< 20.0	< 20.0	1.5	< 5.0	< 1.0 J	6.4 J	**14.0 J**	< 50.0	**5,600**	130	55.0	28.0	600
	2004 01 (Spring)		< 5.0	**27.1 J**	**215**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,580**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	**19.7 J**	< 200	**7,330**	126	59.9	25.1 J	429
	2003 04 (Winter)		< 5.0	**17.9 J**	**309**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,780**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	**650**	< 200	**3,580**	87.4 J	55.3 J	34.7 J	573 J
	2003 03 (Fall)		< 5.0	**13.2 J**	**392**	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	**1,370**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	2.4 J	5.6 J	< 200	**2,270**	91.7	64.7	49.0 J	1,020
	2003 02 (Summer)		< 50.0	**16.7 J**	**464**	< 4.0	< 5.0	1.9 J	< 10.0	< 10.0	< 10.0	**2,090 J**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	**11.8 J**	28.5 J	**4,400**	118 J	66.6 J	36.2 J	707 J
	2003 01 (Spring)		< 1.0	**18.0**	**390**	< 2.0	< 5.0	3.1 J	< 10.0	1.5 J	< 3.0	**2,300**	< 0.20	2.0 J	2.3 J	< 5.0	< 5.0	< 1.0	1.7 J	7.1 J	4.9 J	**7,000**	93.0	49.0	28.0	370
	2002 04 (Winter)		< 50.0	**9.2**	**340 J**	< 2.0	< 5.0	< 10.0	0.26 J	2.1 J	0.11 J	**2,300**	< 0.20	2.2 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	< 10.0	1.3 J	5.9 J	**3,200 J**	98.0	77.0	38.0	660
	2002 03 (Fall)		< 50.0	6.4	**260**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	1,100	< 0.20	1.8 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	**2,100**	85.0	55.0	39.0	960
	2002 02 (Summer)		0.11 J	**13.0**	**260**	< 2.0	< 5.0	2.0 J	0.27 J	0.32 J	< 3.0	**2,000**	< 0.20	< 20.0	1.4 J	1.4 J	< 5.0 UJ	< 2.0	1.3 J	< 20.0	< 100	**5,000**	110	54.0 J	32.0	610
M112-A	2005 02 (Summer)		0.49 J	6.3	68.0	< 2.0	< 5.0	0.92 J	0.29 J	2.2 J	0.25 J	91.0	< 0.20	4.0 J	2.7 J	0.69 J	< 5.0	< 5.0	1.6 J	**57.0**	1.8 J	570	83.0	18.0	11.0	37.0
	2005 01 (Spring)		0.43 J	< 5.0	58.0	< 2.0	< 5.0	< 10.0	0.30 J	**4.1 J**	< 3.0	43.0	< 0.20	2.9 J	2.8 J	< 5.0	< 5.0	< 5.0	0.97 J	**17.0 J**	< 100	40.0 J	99.0	17.0	5.2 J	21.0
	2004 04 (Winter)		0.22 J	**13.0**	62.0	< 2.0	< 5.0	1.2 J	0.21 J	**4.4 J**	0.27 J	200	< 0.20	0.99 J	2.8 J	< 5.0	< 5.0	0.19 J	4.2 J	6.9 J	< 100	110	47.0	15.0	19.0	120
	2004 02 (Summer)		< 1.0	4.4	74.0	< 2.0	< 5.0	< 10.0	0.096 J	< 10.0	0.51 J	78.0	< 0.20	< 20.0	< 20.0	0.62 J	< 5.0	< 1.0	< 10.0	7.6 J	< 50.0	80.0 J	95.0	19.0	10.0	19.0
	2004 01 (Spring)		< 5.0	< 50.0	70.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	73.3	< 0.40	**11.6 J**	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	**35.3**	< 200	103	111	19.9	6.9 J	17.7
	2003 04 (Winter)		< 5.0	**16.3 J**	57.8 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	194	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	118	66.2 J	16.1	15.5	109
	2003 03 (Fall)		< 5.0	**14.8 J**	65.5 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	< 10.0	204	< 0.40	< 50.0	1.5 J	< 20.0	< 10.0	< 5.0	< 50.0	6.7 J	< 200	240	85.1	20.2	13.6 J	57.9
	2003 02 (Summer)		< 50.0	< 50.0	70.2 J	< 4.0	< 5.0	< 10.0	< 10.0	2.3 J	< 10.0	158	< 0.40 UJ	< 50.0	4.2 J	< 20.0	< 10.0	< 5.0	< 50.0	**18.3 J**	< 200	84.0 J	95.7	17.4	7.5 J	16.0
	2003 01 (Spring)		< 1.0	< 5.0	86.0	< 2.0	< 5.0	< 10.0	< 10.0	**4.2 J**	< 3.0	28.0	< 0.20	2.8 J	3.4 J	< 5.0	< 5.0	< 1.0	< 10.0	9.2 J	< 100	270	120	18.0	7.5 J	18.0
	2002 04 (Winter)		0.27 J	**8.3**	80.0	< 2.0	< 5.0	< 10.0	0.23 J	2.8 J	0.073 J	71.0	< 0.20	2.8 J	3.5 J	< 5.0 UJ	< 5.0	< 2.0	3.3 J	9.2 J	12.0 J	< 290 UJ	72.0	14.0	13.0	120
	2002 03 (Fall)		< 50.0	**9.9**	74.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	470	< 0.20	2.9 J	2.4 J	< 5.0	< 5.0	< 2.7	< 10.0	< 20.0 UJ	< 100	460	80.0	21.0	12.0	46.0
	2002 02 (Summer)		0.19 J	**8.5**	74.0	< 2.0	< 5.0	0.35 J	0.74 J	1.2 J	0.036 J	410	< 0.20	< 20.0	3.0 J	< 5.0	< 5.0 UJ	< 2.0	1.0 J	< 20.0	< 100	300	85.0	18.0 J	11.0	17.0
M113-A	2005 02 (Summer)		0.12 J	1.0 J	17.0	< 2.0	< 5.0	2.4 J	0.27 J	0.50 J	< 3.0	390 J	< 0.20	< 20.0	**12.0 J**	0.97 J	< 5.0	0.46 J	2.9 J	2.4 J	< 100	1,100	110	27.0	24.0 J	260
	2005 01 (Spring)		0.91 J	4.8 J	31.0	0.42 J	< 5.0	1.4 J	0.77 J	**3.7 J**	< 3.0	120	< 0.20	2.1 J	**9.3 J**	**4.6 J**	< 5.0	< 5.0	8.4 J	**260**	< 100	41.0 J	92.0	22.0	8.8	77.0
	2004 04 (Winter)		0.62 J	5.2	25.0	< 2.0	< 5.0	3.0 J	0.47 J	3.0 J	0.23 J	210	< 0.20	3.1 J	**17.0 J**	< 5.0	< 5.0	< 5.0	7.0 J	**13.0 J**	6.1 J	190	140	41.0	21.0	270
	2004 02 (Summer)		< 1.0	1.4	17.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	0.073 J	570	< 0.20	< 20.0	**14.0 J**	0.86 J	< 5.0	< 1.0	< 10.0	**14.0 J**	6.0 J	1,300	130	34.0	27.0	300
	2004 01 (Spring)		< 5.0	< 50.0	34.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	785	< 0.40	< 50.0	**18.8 J**	< 20.0	< 10.0	< 5.0	< 50.0	**92.3**	< 200	**1,630**	188	49.0	24.8 J	305
	2003 04 (Winter)		< 5.0	< 50.0	18.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	251	< 0.40	< 50.0	**25.7**	< 20.0	< 10.0	< 5.0	5.8 J	< 20.0	< 200	243	96.4 J	34.8	25.8	307
	2003 03 (Fall)		< 5.0	< 50.0	16.0 J	< 4.0	< 5.0	3.4 J	< 10.0	< 10.0	< 10.0	301	< 0.40	< 50.0	**20.3**	**3.7 J**	< 10.0	< 5.0	3.7 J	2.9 J	< 200	352	88.8	29.7	24.4 J	295
	2003 02 (Summer)		< 50.0	< 50.0	16.8 J	< 4.0	< 5.0	2.0 J	< 10.0	< 10.0	< 10.0	599	< 0.40 UJ	< 50.0	**19.9 J**	< 20.0	< 10.0	< 5.0	1.7 J	< 20.0	< 200	1,300	146	36.9	21.7 J	278
	2002 04 (Winter)		< 50.0	3.3 J	28.0	< 2.0	0.18 J	**3.6 J**	0.58 J	2.7 J	0.094 J	600 J	< 0.20	3.2 J	**19.0 J**	0.59 J	< 5.0	< 2.0	5.5 J	**62.0 J**	5.1 J	1,400	130	37.0 J	30.0	280
	2002 02 (Summer)		0.089 J	0.83 J	16.0	< 2.0	< 5.0	**6.3 J**	< 10.0	0.35 J	< 3.0	520	0.065 J	< 20.0	**18.0 J**	1.9 J	< 5.0	< 2.0	3.5 J	3.6 J	**260 J**	1,200	120	32.0	28.0	310
M114-A	2005 02 (Summer)		0.10 J	6.2	22.0	< 2.0	< 5.0	1.0 J	0.036 J	0.70 J	< 3.0	91.0 J	< 0.20	5.0 J	1.4 J	0.80 J	< 5.0	< 5.0	2.0 J	**19.0 J**	< 100	260	12.0	17.0	23.0 J	510
	2005 01 (Spring)		0.38 J	< 100	27.0	0.50 J	< 5.0	1.1 J	0.098 J	< 10.0	< 3.0	130	< 0.20	5.4 J	1.1 J	< 5.0	< 5.0	< 5.0	1.6 J	**15.0 J**	< 100	290	15.0	21.0	27.0	630
	2004 04 (Winter)		0.12 J	**8.6**	25.0	< 2.0	< 5.0	1.4 J	0.10 J	0.66 J	0.094 J	100	< 0.20	**5.9 J**	1.2 J	**6.1**	< 5.0	< 5.0	4.2 J	7.9 J	7.0 J	270	14.0	18.0	27.0	620

FWBZ

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Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 11-4

Groundwater Sample Analytical Results at IR Site 14: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
	Well Number	Event AWQC:	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M114-A	2004 02 (Summer)	< 1.0	6.0	25.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	0.066 J	100	< 0.20	**7.3 J**	< 20.0	1.2	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	260	13.0	19.0	28.0	610
		2004 01 (Spring)	< 5.0	6.3 J	30.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	209	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	**14.6 J**	< 200	407	16.2	19.8	25.5 J	562
		2003 04 (Winter)	< 5.0 UJ	< 50.0	21.1 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	97.8	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	227	12.5	16.8	26.6	586
		2003 03 (Fall)	< 5.0	**8.9 J**	26.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	118	< 0.40	**6.5 J**	< 20.0	< 20.0	< 10.0	< 5.0	3.0 J	**11.0 J**	< 200	291	15.3	20.4	29.0 J	612
		2003 02 (Summer)	< 50.0	< 50.0	32.9 J	< 4.0	< 5.0	< 10.0	< 10.0	1.1 J	< 10.0	148	< 0.40 UJ	**7.2 J**	< 20.0	< 20.0	< 10.0	< 5.0	2.5 J	< 20.0	< 200	294	17.2	23.1	27.9 J	629
		2003 01 (Spring)	< 1.0	7.1	30.0	< 2.0	< 5.0	2.3 J	< 10.0	**3.7 J**	< 3.0	230	< 0.20	**7.2 J**	**9.9 J**	< 5.0	< 5.0	< 1.0	**18.0**	4.7 J	6.8 J	340	11.0	9.9	17.0 J	390
		2002 04 (Winter)	0.56 J	6.8	26.0	< 2.0	0.071 J	< 10.0	0.83 J	**14.0**	0.54 J	120 J	< 0.20	**6.3 J**	**8.9 J**	< 5.0 UJ	< 5.0	< 2.0	**15.0**	**23.0 J**	**180**	440	10.0	15.0	20.0	190
		2002 03 (Fall)	< 50.0	4.8 J	22.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	95.0	< 0.20	5.4 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 26.0 UJ	< 100	< 250	11.0	14.0	28.0	600
		2002 02 (Summer)	0.057 J	6.3	25.0	< 2.0	< 5.0	1.7 J	0.074 J	0.51 J	< 3.0	86.0	< 0.20	5.4 J	0.69 J	1.9 J	< 5.0	< 2.0	3.0 J	9.0 J	33.0 J	270	12.0	16.0	29.0	690
	M14-01	2006 01 (Spring)	< 1.0	< 5.0	-	0.46 J	< 5.0	2.0 J	-	0.96 J	< 3.0	-	< 0.20	-	< 20.0	**5.9**	**3.0 J**	2.0 J	-	< 20.0	-	-	-	-	-	-
		2005 02 (Summer)	0.16 J	3.4 J	**190**	< 2.0	< 5.0	1.3 J	0.49 J	1.4 J	< 3.0	**3,000 J**	< 0.20	< 20.0	4.1 J	**3.4 J**	< 5.0	< 5.0	0.80 J	**20.0**	< 100	**7,200**	350	210	55.0 J	1,000
		2005 01 (Spring)	0.13 J	< 5.0	**130**	< 2.0	< 5.0	1.3 J	0.42 J	< 10.0	< 3.0	**3,400**	< 0.20	< 20.0	1.5 J	< 5.0	< 5.0	< 5.0	0.70 J	**15.0 J**	< 100	**6,000**	**400**	230	52.0	1,100
		2004 04 (Winter)	0.14 J	2.9 J	**180**	< 2.0	< 5.0	1.7 J	0.55 J	1.4 J	0.27 J	**3,200**	< 0.20	0.32 J	3.7 J	< 5.0	< 5.0	< 5.0	2.1 J	10.0 J	5.2 J	**7,900**	**400**	240	63.0	1,200
		2004 02 (Summer)	< 1.0	2.9	**140**	< 2.0	< 5.0	< 10.0	0.28 J	< 10.0	0.11 J	**3,100**	< 0.20	< 20.0	< 20.0	**7.4**	< 5.0	< 1.0	< 10.0	7.4 J	< 50.0	**2,100**	360	190	55.0	950
		2004 01 (Spring)	< 5.0	< 50.0	91.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**3,250**	< 1.0	< 50.0	**11.7 J**	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	**8,610**	**430**	332	73.6 J	2,030
		2003 04 (Winter)	< 5.0	< 50.0	105	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2,240**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**2,330**	285 J	164 J	53.2 J	855 J
		2003 03 (Fall)	< 5.0	< 50.0	**128**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**3,240**	< 0.40	< 50.0	5.0 J	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	1,100	378	235	59.8 J	1,090
		2003 02 (Summer)	< 50.0	< 50.0	118	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**2,790**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**3,870**	336	193	48.6 J	805
		2003 01 (Spring)	< 1.0	3.2 J	95.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**2,700**	< 0.20	< 20.0	3.8 J	< 6.8	0.10 J	< 1.0	< 10.0	< 20.0	< 100	**7,700**	340	220	52.0 J	1,200
		2002 04 (Winter)	< 50.0	< 5.0	**130**	< 2.0	0.42 J	< 10.0	1.3 J	**3.4 J**	0.10 J	**4,400**	< 0.20	0.81 J	5.6 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	< 20.0	7.8 J	**5,600 J**	380	320	76.0	2,100
		2002 03 (Fall)	< 50.0	< 5.0	97.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	**2,400**	< 0.20	0.38 J	2.6 J	**2.0 J**	< 5.0	< 2.0	5.8 J	< 20.0	< 100	1,500	300	150	48.0	720
		2002 02 (Summer)	0.11 J	2.9 J	85.0	< 2.0	< 5.0	2.2 J	0.40 J	1.5 J	< 3.0	**1,900 J**	< 0.20	< 20.0 J	2.5 J	**5.5**	< 5.0	< 2.0	< 10.0	2.9 J	< 100	1,100	250	120 J	38.0	550
	M14-02	2005 02 (Summer)	0.11 J	1.2 J	37.0	< 2.0	< 5.0	0.81 J	0.27 J	0.51 J	< 3.0	280 J	< 0.20	< 20.0	1.9 J	0.50 J	< 5.0	< 5.0	0.59 J	6.8 J	< 100	700	57.0	29.0	24.0 J	120
		2005 01 (Spring)	0.16 J	< 5.0	31.0	< 2.0	< 5.0	< 10.0	0.42 J	< 10.0	< 3.0	330	< 0.20	2.4 J	2.4 J	< 5.0	< 5.0	< 5.0	< 10.0	**25.0**	< 100	130	64.0	31.0	19.0	130
		2004 04 (Winter)	0.20 J	0.94 J	74.0	< 2.0	< 5.0	< 10.0	1.8	1.4 J	0.17 J	**1,300**	< 0.20	3.0 J	7.4 J	< 5.0	< 5.0	< 5.0	1.9 J	9.8 J	< 100	400	120	50.0	28.0 J	250
		2004 02 (Summer)	< 1.0	1.4	32.0	< 2.0	< 5.0	< 10.0	0.17 J	< 10.0	< 1.0	250	< 0.20	< 20.0	< 20.0	0.69 J	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	92.0 J	64.0	33.0	26.0	130
		2004 01 (Spring)	< 5.0	< 50.0	46.5 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	316	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	72.0	29.7	18.6 J	146
		2003 04 (Winter)	< 5.0	< 50.0	30.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	407	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	30.7 J	85.1 J	51.0	40.0	200
		2003 03 (Fall)	< 5.0 UJ	< 50.0 UJ	29.6 J	< 4.0	< 5.0	1.3 J	< 10.0	< 10.0	< 10.0	534	-	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	**14.7 J**	< 200	< 100	77.7	46.8	39.4 J	122
		2003 02 (Summer)	< 50.0	< 50.0	16.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	582	< 0.40 UJ	< 50.0	**19.8 J**	< 20.0	< 10.0	< 5.0	2.0 J	< 20.0	< 200	1,260	142	35.9	190 J	122
		2003 01 (Spring)	< 1.0	< 5.0	53.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	87.0	< 0.20	2.2 J	3.2 J	< 5.0	< 5.0	< 1.0	< 10.0	2.5 J	< 100	120	79.0	38.0	23.0 J	180
		2002 04 (Winter)	0.73 J	< 5.0	48.0 J	< 2.0	< 5.0	< 10.0	0.28 J	**3.2 J**	0.062 J	16.0	< 0.20	1.4 J	5.9 J	0.69 J	< 5.0	< 2.0	< 10.0	7.5 J	6.5 J	490 J	100	42.0	22.0	210
		2002 03 (Fall)	< 50.0	< 5.0	14.0	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	440	< 0.20	0.95 J	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0 UJ	< 100	410	63.0	38.0	30.0	140
		2002 02 (Summer)	0.084 J	0.49 J	20.0	< 2.0	< 5.0	0.71 J	0.23 J	0.47 J	0.031 J	440	< 0.20	< 20.0	1.4 J	0.64 J	< 5.0 UJ	< 2.0	0.71 J	< 20.0	< 100	310	69.0	40.0 J	29.0	150
	M14-03	2005 02 (Summer)	0.18 J	0.67 J	98.0	< 2.0	< 5.0	0.80 J	0.11 J	1.3 J	< 3.0	5.4 J	< 0.20	4.2 J	2.4 J	0.50 J	< 5.0	< 5.0	0.45 J	2.5 J	< 100	340	91.0	12.0	6.7	26.0
		2005 01 (Spring)	0.52 J	< 5.0	43.0	< 2.0	< 5.0	< 10.0	0.16 J	< 10.0	< 3.0	2.8 J	< 0.20	4.0 J	3.5 J	**3.8 J**	< 5.0	< 5.0	< 10.0	< 20.0	< 100	< 100	120	19.0	8.3	36.0
		2004 04 (Winter)	0.20 J	< 5.0	**130**	< 2.0	< 5.0	< 10.0	0.21 J	2.0 J	0.20 J	2.0 J	< 0.20	3.8 J	4.6 J	< 5.0	< 5.0	< 5.0	1.1 J	10.0 J	4.9 J	420	170	17.0	9.0	50.0
		2004 02 (Summer)	< 1.0	< 1.0	120	< 2.0	< 5.0	< 10.0	0.074 J	< 10.0	< 1.0	25.0	< 0.20	< 20.0	< 20.0	0.70 J	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	< 100	120	14.0	6.6	34.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Table 11-4

Groundwater Sample Analytical Results at IR Site 14: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																		Common Rock-forming Elements						
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
			BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M14-03	2004 01 (Spring)		< 5.0	< 50.0	44.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	13.3	< 0.40	**31.7 J**	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	7.7 J	< 200	33.3 J	127	18.6	7.9 J	35.0
		2003 04 (Winter)		< 5.0	< 50.0	123	< 4.0	< 5.0	< 10.0	**6.1 J**	< 10.0	< 10.0	1,020	< 0.40	**15.0 J**	**15.8 J**	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	126	126 J	26.7	21.9	114
		2003 03 (Fall)		< 5.0	< 50.0	121	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	193	< 0.40	5.5 J	6.2 J	< 20.0	< 10.0	< 5.0	< 50.0	3.1 J	< 200	35.8 J	124	16.2	13.4 J	83.0
		2003 02 (Summer)		< 50.0	< 50.0	54.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	2.9 J	< 0.40 UJ	< 50.0	1.9 J	< 20.0	< 10.0	< 5.0	1.5 J	< 20.0	< 200	< 100	21.0	10.4	2.8 J	16.0
		2003 01 (Spring)		< 1.0	< 5.0	57.0	< 2.0	< 5.0	< 10.0	< 10.0	2.2 J	< 3.0	31.0	< 0.20	3.0 J	3.7 J	< 5.0	< 5.0	< 1.0	0.49 J	**11.0 J**	< 100	190	110	15.0	8.1 J	31.0
		2002 04 (Winter)		0.34 J	< 5.0	79.0	< 2.0	< 5.0	< 10.0	0.23 J	2.3 J	0.18 J	0.91 J	< 0.20	2.5 J	4.6 J	< 5.0 UJ	< 5.0	< 2.0	< 10.0	**17.0 J**	8.7 J	670 J	140	17.0	9.1	50.0
		2002 03 (Fall)		< 50.0	< 5.0	**130**	< 2.0	< 5.0	< 10.0	< 10.0	< 10.0	< 3.0	8.9 J	< 0.20	3.7 J	3.3 J	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	450	130	15.0	9.7	56.0
		2002 02 (Summer)		0.16 J	4.4 J	120	0.036 J	< 5.0	0.41 J	0.79 J	0.68 J	0.057 J	230	< 0.20	< 20.0	2.4 J	0.46 J	< 5.0 UJ	< 2.0	0.076 J	< 20.0	< 100	**4,200**	130	12.0 J	7.3	37.0
	D14-01	2005 02 (Summer)		0.56 J	4.0 J	120	< 2.0	< 5.0	0.79 J	1.1	4.2 J	< 3.0	**5,800 J**	< 0.20	< 20.0	4.8 J	**21.0**	< 5.0	0.094 J	0.37 J	**68.0**	< 100	**10,000**	**730**	1,400	34.0 J	5,400
		2005 01 (Spring)		0.24 J	< 5.0	90.0	< 2.0	< 5.0	< 10.0	0.88 J	< 10.0	< 3.0	**5,300**	< 0.20	2.3 J	< 20.0	< 5.0	< 5.0	**5.0**	< 10.0	**11.0 J**	< 100	**6,300**	**690**	1,300	39.0	5,700
		2004 04 (Winter)		0.29 J	< 5.0	120	< 2.0	< 5.0	1.6 J	1.7	**4.9 J**	0.58 J	**6,100**	< 0.20	1.3 J	**9.7 J**	< 5.0	< 5.0	< 5.0	1.6 J	**34.0**	9.0 J	**10,000**	**790**	1,500	49.0 J	5,900
		2004 02 (Summer)		< 1.0	**8.7**	110	< 2.0	**2.4 J**	< 10.0	0.89 J	< 10.0	0.11 J	**5,600**	< 0.20	< 20.0	< 20.0	**17.0**	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	**7,500**	**720**	1,400	39.0	5,700
		2004 01 (Spring)		< 5.0	< 50.0	79.1 J	< 4.0	< 5.0	< 10.0	< 20.0	< 10.0	< 10.0	**4,030**	< 1.0	< 100	< 40.0	< 20.0	< 10.0	< 20.0	< 50.0	< 20.0	< 200	**5,550**	**634**	1,220	32.8 J	5,060
		2003 04 (Winter)		< 5.0	5.5 J	**130**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**4,390**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	**5,600**	**988 J**	1,480 J	28.0 J	6,170 J
		2003 03 (Fall)		< 5.0	**13.0 J**	**129**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**6,200**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	**7,940**	**900**	1,600	47.2 J	5,630
		2003 02 (Summer)		< 50.0	6.1 J	102	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**5,670 J**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	**7,270**	**777 J**	1,480 J	59.2 J	5,440 J
		2003 01 (Spring)		< 1.0	6.0	110	< 2.0	< 5.0	< 10.0	< 10.0	**3.6 J**	< 3.0	**5,100**	< 0.20	< 20.0	3.6 J	**7.4**	< 5.0	< 1.0	< 10.0	< 20.0	< 100	**7,600**	**630**	1,300	38.0 J	5,400
		2002 04 (Winter)		< 50.0	< 5.0	110	< 2.0	< 5.0	< 10.0	1.9 J	**6.5 J**	0.11 J	**3,000**	< 0.20	1.5 J	**9.1 J**	< 5.0 UJ	0.024 J	< 2.0	3.3 J	< 20.0	5.7 J	**10,000 J**	360	720	19.0	5,700
		2002 03 (Fall)		< 50.0	< 5.0	110	< 2.0	< 5.0	< 10.0	1.8 J	**6.7 J**	< 3.0	**4,900**	< 0.20	1.3 J	**9.3 J**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**10,000**	**680**	1,300	34.0	5,500
		2002 02 (Summer)		0.094 J	3.4 J	92.0	< 2.0	< 5.0	**12.0**	1.2 J	< 10.0	< 3.0	**4,900**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	4.0 J	**6,000**	**690**	1,400	32.0	5,600
SWBZ	M101-C	2005 02 (Summer)		0.59 J	< 5.0	**130**	< 2.0	< 5.0	3.0 J	1.2	**6.3 J**	< 3.0	**1,900 J**	< 0.20	< 20.0	5.3 J	**46.0**	< 5.0	< 5.0	3.2 J	**93.0**	< 100	**2,100**	**710**	1,600	170 J	8,800
		2005 01 (Spring)		0.26 J	3.4 J	90.0	< 2.0	< 5.0	2.6 J	0.93 J	< 10.0	< 3.0	**1,800**	0.085 J	< 20.0	< 20.0	< 5.0	< 5.0	**4.1 J**	2.7 J	**26.0**	< 100	< 100	**740**	1,900	240	9,500
		2004 04 (Winter)		0.39 J	< 5.0	**150**	< 2.0	< 5.0	**4.8 J**	1.7	4.2 J	0.22 J	**2,300**	< 0.20	0.25 J	**11.0 J**	< 5.0	< 5.0	< 5.0	5.4 J	**29.0**	5.5 J	< 100	**790**	1,900	200	9,100
		2004 02 (Summer)		< 1.0	< 1.0	120	< 2.0	< 5.0	< 10.0	1.4	< 10.0	0.37 J	**2,100**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	< 20.0	< 50.0	< 100	**790**	2,000	220	9,900
		2004 01 (Spring)		< 10.0	< 50.0	83.4 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,650**	< 1.0	**11.0 J**	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	**791**	1,980	223 J	10,200
		2003 04 (Winter)		< 5.0	< 50.0	116	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,890**	< 0.40 UJ	**31.4 J**	< 20.0	< 20.0	< 10.0	-	7.0 J	< 20.0	< 200	< 100	**806 J**	1,910 J	214 J	9,830 J
		2003 03 (Fall)		< 25.0	6.6 J	**158**	< 4.0	< 5.0	2.2 J	< 10.0	< 10.0	< 10.0	**2,730**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0	< 50.0	< 20.0	< 200	< 100	**912**	2,200	288 J	8,880
		2003 02 (Summer)		< 50.0	6.2 J	104	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,920**	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 100	< 50.0	< 20.0	< 200	< 100	**687**	1,680	200 J	7,220
		2003 01 (Spring)		< 1.0	2.5 J	120	< 2.0	< 5.0	**15.0**	1.2 J	**5.0 J**	< 3.0	**2,000**	< 0.20	< 20.0	5.1 J	< 5.0	< 5.0	< 1.0	3.7 J	< 20.0	4.1 J	1,400	**680**	1,600	180	9,600
		2002 04 (Winter)		< 50.0	4.7 J	**150**	< 2.0	< 5.0	3.1 J	1.7 J	**5.7 J**	0.044 J	**3,000**	< 0.20	< 20.0	4.5 J	< 5.0	< 5.0	< 3.0	4.8 J	< 20.0	7.6 J	1,200 J	**970**	2,300	250	12,000
		2002 03 (Fall)		< 50.0	< 5.0	**150**	< 2.0	< 5.0	< 10.0	1.8 J	**9.9 J**	< 3.0	**1,900**	< 0.20	< 20.0	**10.0 J**	< 5.0	< 5.0	< 2.0	< 10.0	< 20.0	38.0 J	**2,500**	**750**	1,800	190	9,400
		2002 02 (Summer)		0.076 J	< 5.0	120	< 2.0	< 5.0	< 10.0	1.4 J	< 10.0	< 3.0	**1,900**	0.050 J	< 20.0	< 20.0	< 5.0	< 5.0	0.11 J	< 10.0	< 20.0	9.2 J	< 100	**720**	1,800	190	9,100

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

ITSI Innovative Technical Solutions, Inc.

Table 11-5
Groundwater Sampling Field Parameters at IR Site 14
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M101-A	04/25/06	7.14	0.65	-99
		08/30/05	7.86	0.67	-237
		03/22/05	7.39	0.00	-276
		11/18/04	7.00	0.36	-9.0
		06/24/04	6.85	0.48	-65
		03/09/04	7.09	0.53	-164
		12/04/03	7.23	0.21	-93
		10/01/03	7.21	0.10	-123
		07/01/03	7.24	0.09	-138
		04/14/03	7.53	0.08	-220
		12/20/02	7.23	0.04	-156
		09/16/02	7.31	0.90	-149.7
		06/27/02	6.85	0.86	-143.7
First	M112-A	08/31/05	6.02	4.43	-64
		03/22/05	7.43	1.48	-36
		11/18/04	7.58	0.20	60
		06/24/04	7.30	7.20	47
		03/09/04	7.72	0.74	38
		12/05/03	7.11	0.45	212
		10/01/03	7.13	0.26	85
		07/02/03	7.11	0.18	-263
		04/15/03	7.03	2.14	145
		12/20/02	7.37	2.10	-54
		09/16/02	6.99	1.70	93.1
		06/27/02	6.96	0.21	-18.5
First	M113-A	08/30/05	6.56	3.76	-187
		03/23/05	7.26	1.15	34
		11/18/04	7.00	0.11	87
		06/24/04	6.97	0.32	-53
		03/09/04	7.75	0.11	62
		12/05/03	7.29	0.28	30
		10/01/03	7.42	0.22	-22
		07/02/03	7.22	0.28	67
		04/14/03	7.38	0.36	-6.0
		12/20/02	6.87	1.24	-84.7
		09/16/02	7.42	1.00	-142.4
		07/01/02	7.15	0.00	-130.4
First	M114-A	08/30/05	7.31	5.31	-212
		03/23/05	7.95	0.00	-229
		11/18/04	7.80	0.14	169
		06/24/04	7.73	1.42	-81
		03/09/04	7.83	0.11	-149
		12/08/03	7.80	0.27	140
		10/01/03	7.91	0.18	10
		07/02/03	7.99	0.10	-304
		04/15/03	7.68	0.15	198
		12/23/02	7.66	0.76	-63.8

Table 11-5
Groundwater Sampling Field Parameters at IR Site 14
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M114-A	09/17/02	7.81	0.15	-168
		06/26/02	7.94	1.90	-128
First	M14-01	04/25/06	6.89	0.54	-100
		08/30/05	6.72	0.00	-138
		03/22/05	6.92	0.00	-137
		11/18/04	6.91	0.19	-9.0
		06/24/04	7.39	3.10	43
		03/09/04	7.52	0.20	59
		12/04/03	6.96	0.28	-56
		10/01/03	6.78	0.47	-118
		09/16/03	NM	NM	NM
		07/02/03	6.92	0.10	-293
		04/15/03	6.92	0.14	2.0
		12/20/02	6.21	1.50	-55.9
		06/26/02	6.79	***9.55***	63.3
First	M14-02	08/30/05	6.98	0.00	-145
		03/22/05	7.56	0.00	-245
		11/18/04	6.93	0.20	130
		06/24/04	7.07	0.35	40
		03/09/04	7.09	0.25	-261
		12/05/03	7.08	0.45	224
		09/30/03	7.37	0.39	-316
		07/02/03	7.22	0.37	159
		04/15/03	7.29	0.67	177
		12/20/02	6.43	3.49	40.3
		09/16/02	7.41	2.60	-114
		06/27/02	7.34	0.25	-70.8
First	M14-03	08/30/05	6.66	2.47	84
		03/22/05	7.10	2.67	-57
		11/18/04	6.80	2.03	234
		06/24/04	6.62	2.26	153
		03/09/04	6.03	2.95	35
		12/05/03	6.87	0.32	194
		10/01/03	6.83	0.44	-210
		07/02/03	6.54	0.85	178
		04/15/03	7.09	2.21	143
		12/20/02	6.46	4.90	67.9
		09/16/02	6.78	5.20	6.0
		06/27/02	6.70	0.89	-62.9
Second	D14-01	08/30/05	6.85	0.00	-145
		03/22/05	7.07	0.17	-154
Second	D14-01	11/18/04	7.04	0.21	46
		06/24/04	6.73	0.56	-39
		03/09/04	6.63	0.36	207
		12/04/03	7.02	0.95	-165
		10/01/03	6.80	0.22	-115
		07/01/03	7.03	0.33	-225

Table 11-5
Groundwater Sampling Field Parameters at IR Site 14
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
Second	D14-01	04/15/03	7.04	0.55	35
		12/20/02	6.42	3.12	-89.9
		09/17/02	6.79	0.28	-103
		07/15/02	7.08	0.35	0.0
Second	M101-C	08/30/05	7.50	0.59	-358
		03/22/05	6.97	0.00	-398
		11/18/04	6.29	0.10	-267
		06/25/04	6.42	0.21	-194
		03/09/04	6.74	0.10	-89
		12/04/03	6.72	0.19	-314
		10/01/03	6.49	0.10	-306
		07/02/03	6.64	0.10	-283
		04/14/03	7.31	0.34	-262
		12/20/02	7.00	0.05	-337
		09/17/02	6.64	0.12	-350
		07/15/02	6.92	0.20	0.0

Notes:

Field parameters are measured during well purging, just prior to collection of the groundwater sample.

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 11-6
Groundwater Sample Analytical Results at IR Site 14: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event** **AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M101-A	2006 01 (Spring)	< 0.0050	**0.013**	**0.71**	< 0.050	< 0.050	**410**	**120**	**540**	**540**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.37**	< 0.10	< 0.15	**1,100**	**48.0**	**790**	**790**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	**0.028**	**0.37**	**0.020 J**	< 0.10	**550**	**120**	**510**	**510**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	**0.018 J**	**0.23 J**	< 0.050	< 0.10	**630**	**100**	**690**	**690**	< 1.0	< 1.0	**0.070**
		2003 04 (Winter)	< 0.0030	**0.018**	**0.28**	< 0.10	< 1.0	**633**	**52.6**	**310**	**310**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	**0.030**	**0.23**	< 1.0	< 1.0	**1,040**	**45.5**	**2,040**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	**0.010**	**0.33**	< 0.10	< 0.10	**850**	**81.0**	**630**	**630**	< 1.0	< 1.0	**0.12**
		2002 02 (Summer)	< 0.010	**0.078**	**0.18**	< 0.10	< 0.10	**760**	**61.0**	**630**	**630**	< 1.0	< 1.0	**0.21**
	M112-A	2005 02 (Summer)	< 0.0050	< 0.0050	**0.045**	< 0.050	< 0.050	**11.0**	**63.0**	**280**	**280**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.080**	**0.030 J**	< 0.050	**25.0**	**130**	**320**	**320**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	**0.014 J**	**0.010 J**	< 0.050	**16.0**	**47.0**	**290**	**290**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.10**	< 0.20	< 0.20	**15.6 J**	**105**	**309**	**309**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.012**	< 0.10	< 0.10	**22.2**	**49.8**	**268**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.025**	**0.71**	< 0.050	**22.0**	**130**	**380**	**380**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.050	< 0.050	**14.0**	**52.0**	**260**	**260**	< 1.0	< 1.0	< 0.040
	M113-A	2005 02 (Summer)	**0.084 J**	< 0.0050	**2.0**	**0.010 J**	< 0.050	**180**	**230**	**920**	**920**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	**0.095**	< 0.0050	**2.2**	< 0.050	< 0.050	**130**	**380**	**530**	**530**	< 1.0	< 1.0	**0.25**
		2004 02 (Summer)	**0.052 J**	< 0.010 J	**1.7 J**	< 0.050	< 0.050	**180**	**250**	**670**	**670**	< 1.0	< 1.0	**0.15**
		2003 04 (Winter)	**0.081**	< 0.0030	**1.5**	**0.18 J**	< 0.20	**155**	**263**	**573**	**573**	< 5.0	-	< 1.0
		2003 02 (Summer)	**0.035**	**0.0013 J**	**1.1**	< 1.0	< 1.0	**182**	**243**	**596**	-	-	-	< 1.0
		2002 04 (Winter)	**0.037**	< 0.010	**1.5**	< 0.050	< 0.050	**160**	**260**	**540**	**540**	< 1.0	< 1.0	**0.18**
		2002 02 (Summer)	**0.057**	< 0.010	**2.0**	< 0.10	< 0.10	**150**	**210**	**620**	**620**	< 1.0	< 1.0	**0.28**
	M114-A	2005 02 (Summer)	< 0.0050	< 0.0050	**0.032**	< 0.050	< 0.10	**510**	**49.0**	**680**	**680**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.053**	< 0.050	< 0.10	**570**	**46.0**	**600**	**600**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	**0.030 J**	< 0.050	< 0.10	**560**	**49.0**	**700**	**630**	**72.0**	< 1.0	**0.050**
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.026**	< 1.0	< 1.0	**535**	**41.8**	**650**	**650**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.031**	< 1.0	< 1.0	**670**	**45.7**	**631**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.011**	< 0.050	< 0.050	**370**	**50.0**	**490**	**490**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.030**	< 0.25	< 0.25	**530**	**55.0**	**660**	**660**	< 1.0	< 1.0	< 0.040
	M14-01	2006 01 (Spring)	< 0.0050	< 0.0050	**0.086**	< 0.25	< 0.50	**3,100**	**340**	**470**	**470**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.054**	< 0.15	< 0.50	**2,700**	**310**	**460**	**460**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.080**	< 0.25	< 0.25	**2,700**	**310**	**400**	**400**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	**0.047 J**	< 0.25	< 0.25	**2,200**	**270**	**430**	**430**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.045**	**1.3**	< 1.0	**2,110**	**265**	**411**	**411**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.048**	< 1.0	< 1.0	**2,430**	**282**	**375**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.052**	**0.40**	< 0.50	**4,000**	**520**	**390**	**400**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.078**	< 0.50	< 0.50	**1,400**	**200**	**360**	**360**	< 1.0	< 1.0	< 0.040
	M14-02	2005 02 (Summer)	< 0.0050	< 0.0050	**0.21**	< 0.050	< 0.050	**85.0**	**56.0**	**400**	**400**	< 1.0	< 1.0	< 0.040

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 11-6
Groundwater Sample Analytical Results at IR Site 14: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M14-02	2004 04 (Winter)	< 0.0050	< 0.0050	**0.019**	< 0.050	< 0.050	**300**	**110**	**430**	**430**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	**0.11 J**	**0.030 J**	< 0.050	**79.0**	**50.0**	**430**	**430**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.015**	< 0.20	< 0.20	**93.6**	**84.7**	**441**	**441**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.020**	< 1.0	< 1.0	**99.9**	**86.6**	**393**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**0.55**	< 0.050	**330**	**120**	**390**	**390**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.043**	**0.060**	< 0.050	**78.0**	**110**	**420**	**420**	< 1.0	< 1.0	**0.040 J**
	M14-03	2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	**0.13**	< 0.050	**12.0**	**60.0**	**280**	**280**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0050**	**0.51**	< 0.050	**35.0**	**180**	**290**	**290**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	< 0.010 J	**0.25**	< 0.050	**18.0**	**95.0**	**350**	**350**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.022**	< 0.20	< 0.20	**34.7 J**	**144**	**369**	**369**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0050**	**0.31**	< 0.10	**30.8**	**105**	**268**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**1.2**	< 0.050	**32.0**	**190**	**360**	**360**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.010 J**	**0.29**	< 0.050	**21.0**	**120**	**280**	**280**	< 1.0	< 1.0	< 0.040
SWBZ	D14-01	2005 02 (Summer)	< 0.0050	< 0.0050	**0.012**	< 1.0	< 2.5	**13,000**	**1,200**	**810**	**810**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.015**	< 1.0	< 1.3	**13,000**	**1,200**	**730**	**730**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010 J	< 0.010 J	**0.010 J**	< 1.3	< 1.3	**13,000**	**1,200**	**770**	**770**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0082**	< 1.0	-	**13,200**	**1,040**	**746**	**746**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0085**	< 1.0	< 50.0	**13,200**	**1,070**	**725**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.011**	< 1.3	< 1.3	**13,000**	**1,200**	**760**	**760**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.016**	< 0.50	< 0.50	**13,000**	**1,200**	**770**	**770**	< 1.0	< 1.0	< 0.040
	M101-C	2005 02 (Summer)	< 0.0050	< 0.0050	**10.0**	< 1.0	< 2.5	**19,000**	**1,900**	**1,300**	**1,300**	< 1.0	< 1.0	**0.52 J**
		2004 04 (Winter)	< 0.0050	< 0.0050	**17.0**	< 1.3	< 2.5	**20,000**	**1,700**	**1,800**	**1,800**	< 1.0	< 1.0	**37.0**
		2004 02 (Summer)	< 0.010	< 0.010	**14.0**	< 1.3	< 2.5	**20,000**	**1,800**	**1,700**	**1,700**	< 1.0	< 1.0	**40.0**
		2003 04 (Winter)	< 0.0030	< 0.0030	**6.1**	< 1.0	-	**17,000**	**1,610**	**1,890**	**1,890**	< 5.0	-	**32.0**
		2003 02 (Summer)	< 0.0030	< 0.0030	**5.7**	< 1.0	< 50.0 UJ	**21,100**	**1,750**	**1,590**	-	-	-	**22.0**
		2002 04 (Winter)	< 0.010	< 0.010	**18.0**	< 2.5	< 2.5	**19,000**	**1,600**	**1,900**	**1,900**	< 1.0	< 1.0	**45.0**
		2002 02 (Summer)	< 0.010	< 0.010	**20.0**	< 1.0	< 1.0	**20,000**	**1,700**	**1,700**	**1,700**	< 1.0	< 1.0	**20.0**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 11-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 14

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 14 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	2	7	1.7 J	M101-A	25 Apr 2006	10.0 J	M101-A	2003 02 (Summer)
Benzene (UG/L)	2	7	0.60	M113-A	30 Aug 2005	1.4	M113-A	2004 01 (Spring)
TPH-Diesel (UG/L)	2	7	78.0	M14-01	25 Apr 2006	4900	M101-A	2004 04 (Winter)
Tetrachloroethene (PCE) (UG/L)	2	7	2.0	M101-A	25 Apr 2006	2.3	M101-A	2004 04 (Winter)
TPH-Jet Fuel (UG/L)	1	7	60.0	M14-01	25 Apr 2006	1200	M101-A	2004 04 (Winter)
Trichloroethene (UG/L)	3	7	1.9	M101-A	25 Apr 2006	3.3	M101-A	2002 04 (Winter)
Ethylbenzene (UG/L)	1	7	0.10 J	M101-A	25 Apr 2006	3.4	M101-A	2002 02 (Summer)
TPH-Motor Oil (UG/L)	1	7	180 J	M101-A	30 Aug 2005	1100	M101-A	2004 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	4	7	23.0	M112-A	31 Aug 2005	270	M101-A	2002 02 (Summer)
TPH-Gasoline (UG/L)	1	7	75.0	M101-A	25 Apr 2006	540	M101-A	2002 02 (Summer)
O-xylene (UG/L)	1	7	0.070 J	M101-A	25 Apr 2006	11.0	M101-A	2002 02 (Summer)
trans-1,2-Dichloroethene (UG/L)	1	7	1.0	M101-A	25 Apr 2006	1.9	M101-A	2002 02 (Summer)
1,1-Dichloroethane (UG/L)	3	7	31.0	M101-A	25 Apr 2006	150	M101-A	2002 02 (Summer)
Carbon Disulfide (UG/L)	3	7	0.30 J	M14-01	30 Aug 2005	4.2	M101-A	2004 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	1	7	0.20 J	M14-02	30 Aug 2005	0.50 J	M14-02	2002 02 (Summer)
1,1,1-Trichloroethane (UG/L)	1	7	0.80	M101-A	25 Apr 2006	5.0	M101-A	2002 02 (Summer)
1,2-Dichlorobenzene (UG/L)	1	7	0.20 J	M113-A	30 Aug 2005	0.30 J	M113-A	2004 02 (Summer)
Chloroethane (UG/L)	1	7	0.30 J	M101-A	25 Apr 2006	0.30 J	M101-A	2004 02 (Summer)
Vinyl Chloride (UG/L)	2	7	47.0	M101-A	25 Apr 2006	300	M101-A	2002 02 (Summer)
Isopropylbenzene (UG/L)	1	7	0.70	M101-A	25 Apr 2006	5.9	M101-A	2002 02 (Summer)
Methyl ethyl ketone (MEK) (UG/L)	2	7	0.70 J	M14-01	30 Aug 2005	8.0 J	M114-A	2004 01 (Spring)
n-Propylbenzene (UG/L)	1	7	0.10 J	M101-A	25 Apr 2006	5.9	M101-A	2002 02 (Summer)
sec-Butylbenzene (UG/L)	1	7	0.90	M101-A	25 Apr 2006	3.8	M101-A	2002 02 (Summer)
Tert-butylbenzene (UG/L)	1	7	0.40 J	M101-A	25 Apr 2006	0.60	M101-A	2002 02 (Summer)
1,2,4-Trimethylbenzene (UG/L)	1	7	0.10 J	M101-A	25 Apr 2006	27.0	M101-A	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 11-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 14

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 14 (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Carbon Disulfide (UG/L)	2	2	0.30 J	M101-C	30 Aug 2005	12.0	M101-C	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 11-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 14

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 14 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	7	7	0.49 J	M112-A	31 Aug 2005	1.1	M101-A	2005 01 (Spring)
Arsenic (UG/L)	7	7	11.0	M101-A	30 Aug 2005	27.1 J	M101-A	2004 01 (Spring)
Barium (UG/L)	7	7	230	M101-A	30 Aug 2005	464	M101-A	2003 02 (Summer)
Beryllium (UG/L)	1	7	0.46 J	M14-01	25 Apr 2006	0.50 J	M114-A	2005 01 (Spring)
Chromium (UG/L)	7	7	3.1 J	M101-A	30 Aug 2005	6.3 J	M113-A	2002 02 (Summer)
Cobalt (UG/L)	7	7	0.49 J	M14-01	30 Aug 2005	6.1 J	M14-03	2003 04 (Winter)
Copper (UG/L)	7	7	2.2 J	M112-A	31 Aug 2005	14.0	M114-A	2002 04 (Winter)
Lead (UG/L)	2	7	0.25 J	M112-A	31 Aug 2005	0.54 J	M114-A	2002 04 (Winter)
Manganese (UG/L)	7	7	3000 J	M14-01	30 Aug 2005	4400	M14-01	2002 04 (Winter)
Molybdenum (UG/L)	3	7	5.0 J	M114-A	30 Aug 2005	31.7 J	M14-03	2004 01 (Spring)
Nickel (UG/L)	7	7	12.0 J	M113-A	30 Aug 2005	25.7	M113-A	2003 04 (Winter)
Selenium (UG/L)	7	7	5.9	M14-01	25 Apr 2006	7.4	M14-01	2004 02 (Summer)
Silver (UG/L)	1	7	3.0 J	M14-01	25 Apr 2006	0.10 J	M14-01	2003 01 (Spring)
Thallium (UG/L)	2	7	2.0 J	M14-01	25 Apr 2006	0.19 J	M112-A	2004 04 (Winter)
Vanadium (UG/L)	7	7	3.0 J	M101-A	30 Aug 2005	18.0	M114-A	2003 01 (Spring)
Zinc (UG/L)	7	7	57.0	M112-A	31 Aug 2005	650	M101-A	2003 04 (Winter)
Aluminum (UG/L)	1	7	1.8 J	M112-A	31 Aug 2005	260 J	M113-A	2002 02 (Summer)
Iron (UG/L)	7	7	7200	M14-01	30 Aug 2005	8610	M14-01	2004 01 (Spring)
Calcium (MG/L)	7	7	350	M14-01	30 Aug 2005	430	M14-01	2004 01 (Spring)
Magnesium (MG/L)	7	7	210	M14-01	30 Aug 2005	332	M14-01	2004 01 (Spring)
Potassium (MG/L)	7	7	55.0 J	M14-01	30 Aug 2005	190 J	M14-02	2003 02 (Summer)
Sodium (MG/L)	7	7	1000	M14-01	30 Aug 2005	2100	M14-01	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 11-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 14

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 14 (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	2	2	0.59 J	M101-C	30 Aug 2005	0.39 J	M101-C	2004 04 (Winter)
Arsenic (UG/L)	1	2	4.0 J	D14-01	30 Aug 2005	13.0 J	D14-01	2003 03 (Fall)
Barium (UG/L)	2	2	130	M101-C	30 Aug 2005	158	M101-C	2003 03 (Fall)
Chromium (UG/L)	2	2	3.0 J	M101-C	30 Aug 2005	15.0	M101-C	2003 01 (Spring)
Cobalt (UG/L)	2	2	1.2	M101-C	30 Aug 2005	1.9 J	D14-01	2002 04 (Winter)
Copper (UG/L)	2	2	6.3 J	M101-C	30 Aug 2005	9.9 J	M101-C	2002 03 (Fall)
Manganese (UG/L)	2	2	5800 J	D14-01	30 Aug 2005	6200	D14-01	2003 03 (Fall)
Nickel (UG/L)	2	2	5.3 J	M101-C	30 Aug 2005	11.0 J	M101-C	2004 04 (Winter)
Selenium (UG/L)	2	2	46.0	M101-C	30 Aug 2005	17.0	D14-01	2004 02 (Summer)
Thallium (UG/L)	1	2	0.094 J	D14-01	30 Aug 2005	5.0	D14-01	2005 01 (Spring)
Vanadium (UG/L)	2	2	3.2 J	M101-C	30 Aug 2005	7.0 J	M101-C	2003 04 (Winter)
Zinc (UG/L)	2	2	93.0	M101-C	30 Aug 2005	34.0	D14-01	2004 04 (Winter)
Iron (UG/L)	2	2	10000	D14-01	30 Aug 2005	10000	D14-01	2004 04 (Winter)
Calcium (MG/L)	2	2	730	D14-01	30 Aug 2005	988 J	D14-01	2003 04 (Winter)
Magnesium (MG/L)	2	2	1600	M101-C	30 Aug 2005	2300	M101-C	2002 04 (Winter)
Potassium (MG/L)	2	2	170 J	M101-C	30 Aug 2005	288 J	M101-C	2003 03 (Fall)
Sodium (MG/L)	2	2	8800	M101-C	30 Aug 2005	12000	M101-C	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 11-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 14

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 14 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	920	M113-A	30 Aug 2005	2040	M101-A	2003 02 (Summer)
Alkalinity, bicarbonate (MG/L)	7	7	920	M113-A	30 Aug 2005	690	M101-A	2004 02 (Summer)
Ethane (MG/L)	1	7	0.084 J	M113-A	30 Aug 2005	0.095	M113-A	2004 04 (Winter)
Ethene (MG/L)	1	7	0.013	M101-A	25 Apr 2006	0.078	M101-A	2002 02 (Summer)
Methane (MG/L)	6	7	2.0	M113-A	30 Aug 2005	2.2	M113-A	2004 04 (Winter)
Nitrate (MG/L)	2	7	0.13	M14-03	30 Aug 2005	1.3	M14-01	2003 04 (Winter)
Chloride (MG/L)	7	7	3100	M14-01	25 Apr 2006	4000	M14-01	2002 04 (Winter)
Sulfate (as SO4) (MG/L)	7	7	340	M14-01	25 Apr 2006	520	M14-01	2002 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

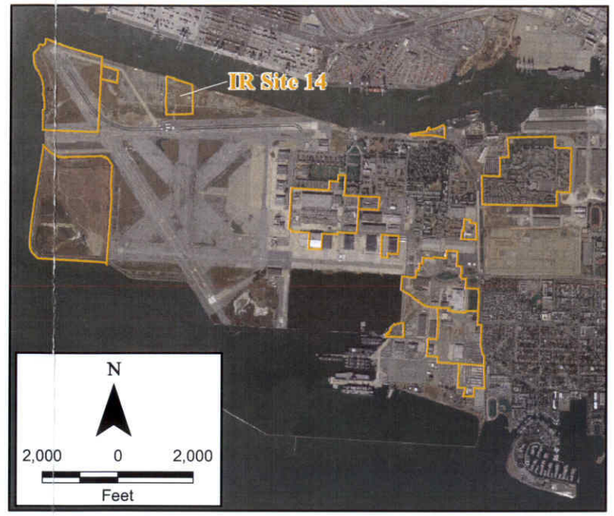
Table 11-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 14

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 14 (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	2	2	1300	M101-C	30 Aug 2005	1900	M101-C	2002 04 (Winter)
Sulfide (MG/L)	1	2	0.52 J	M101-C	30 Aug 2005	45.0	M101-C	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	2	2	1300	M101-C	30 Aug 2005	1900	M101-C	2002 04 (Winter)
Methane (MG/L)	2	2	10.0	M101-C	30 Aug 2005	20.0	M101-C	2002 02 (Summer)
Chloride (MG/L)	2	2	19000	M101-C	30 Aug 2005	21100	M101-C	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	2	2	1900	M101-C	30 Aug 2005	1800	M101-C	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility

N

200 0 200

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004 National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Site 14\Annual 14 Location Map_NAD83.mxd

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PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 11-1
IR SITE 14
SITE AND WELL LOCATION MAP

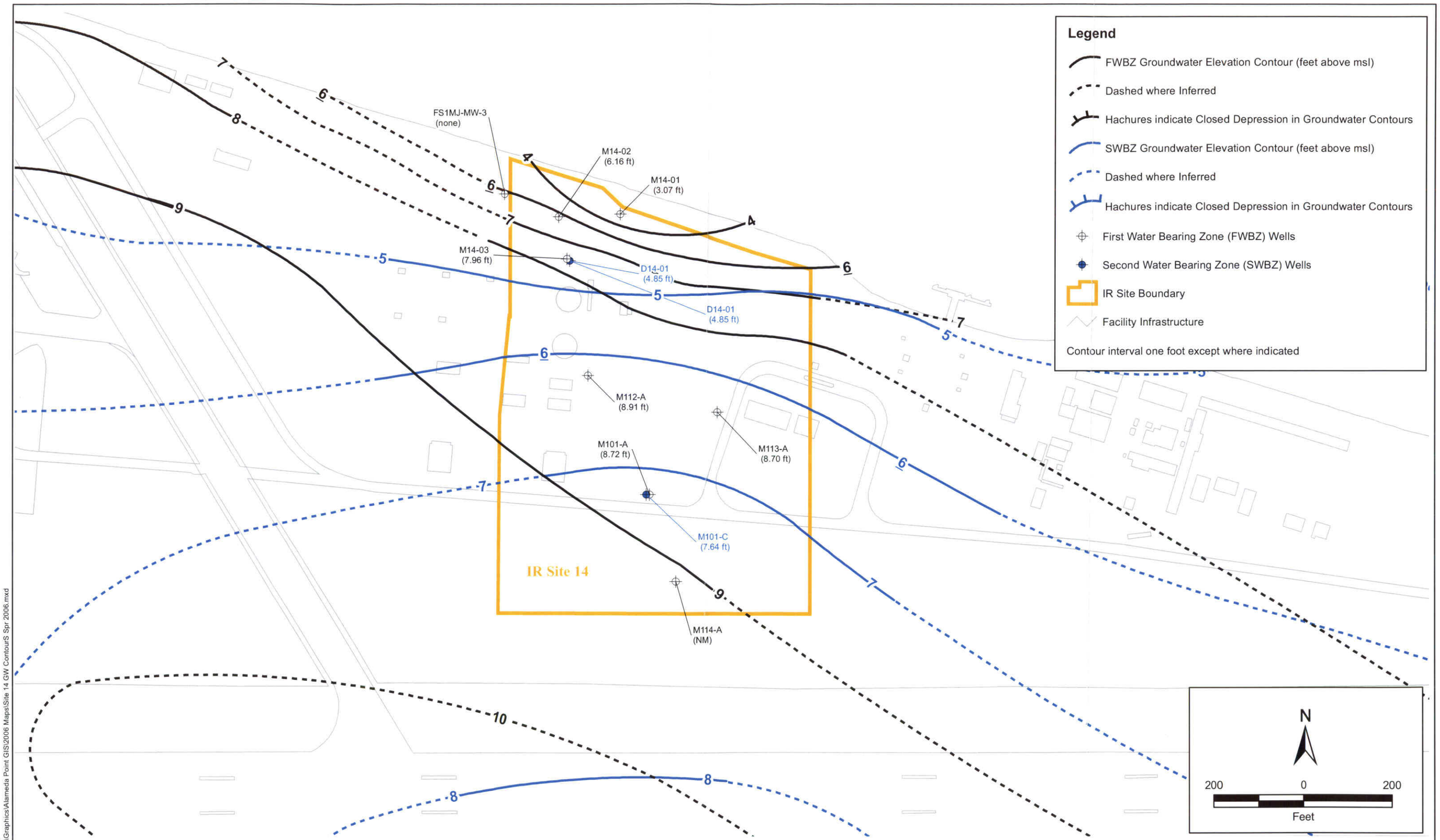

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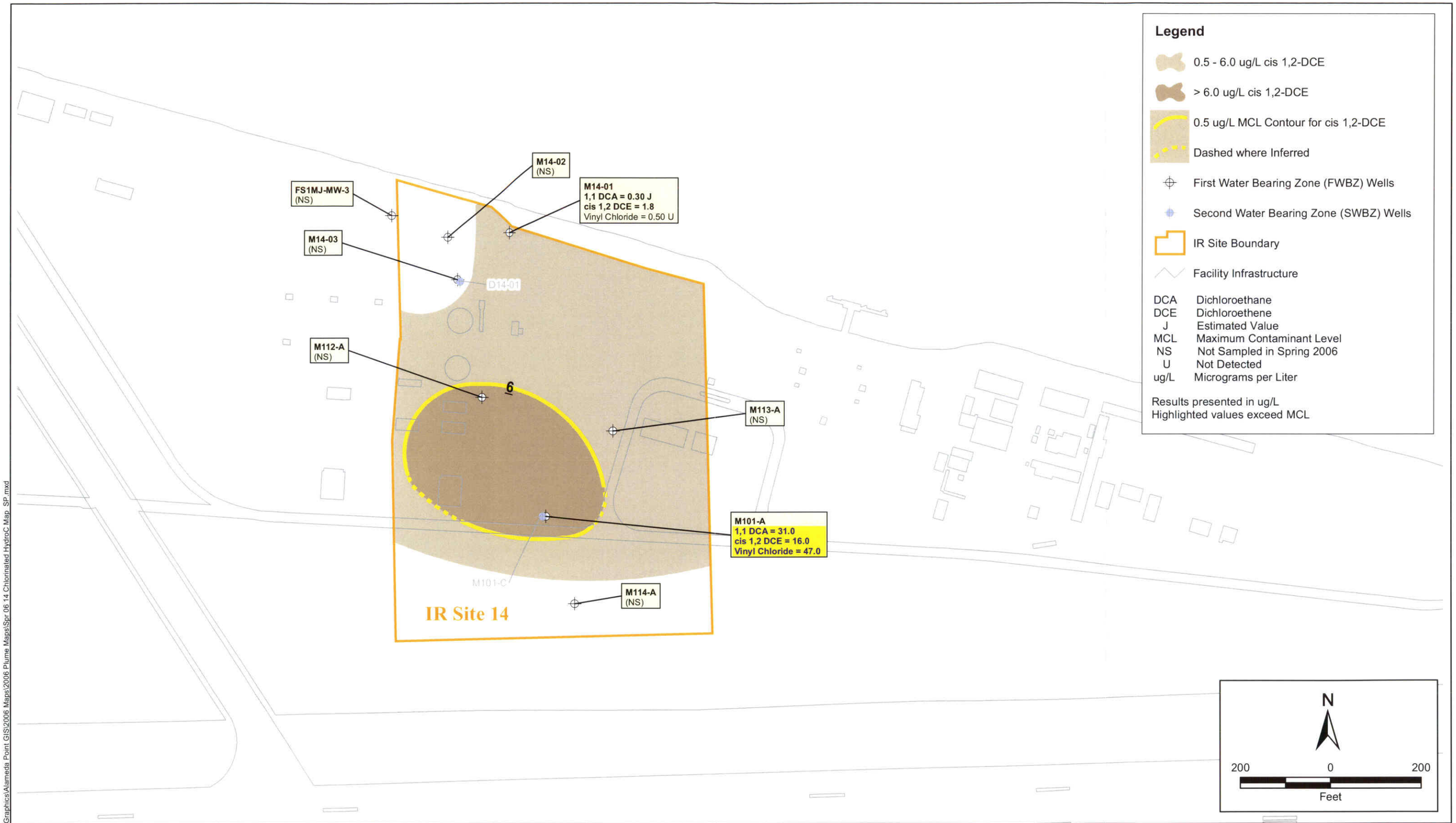
FIGURE 11-2
IR SITE 14
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006



2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 14 Chlorinated HydroC Map SP.mxd

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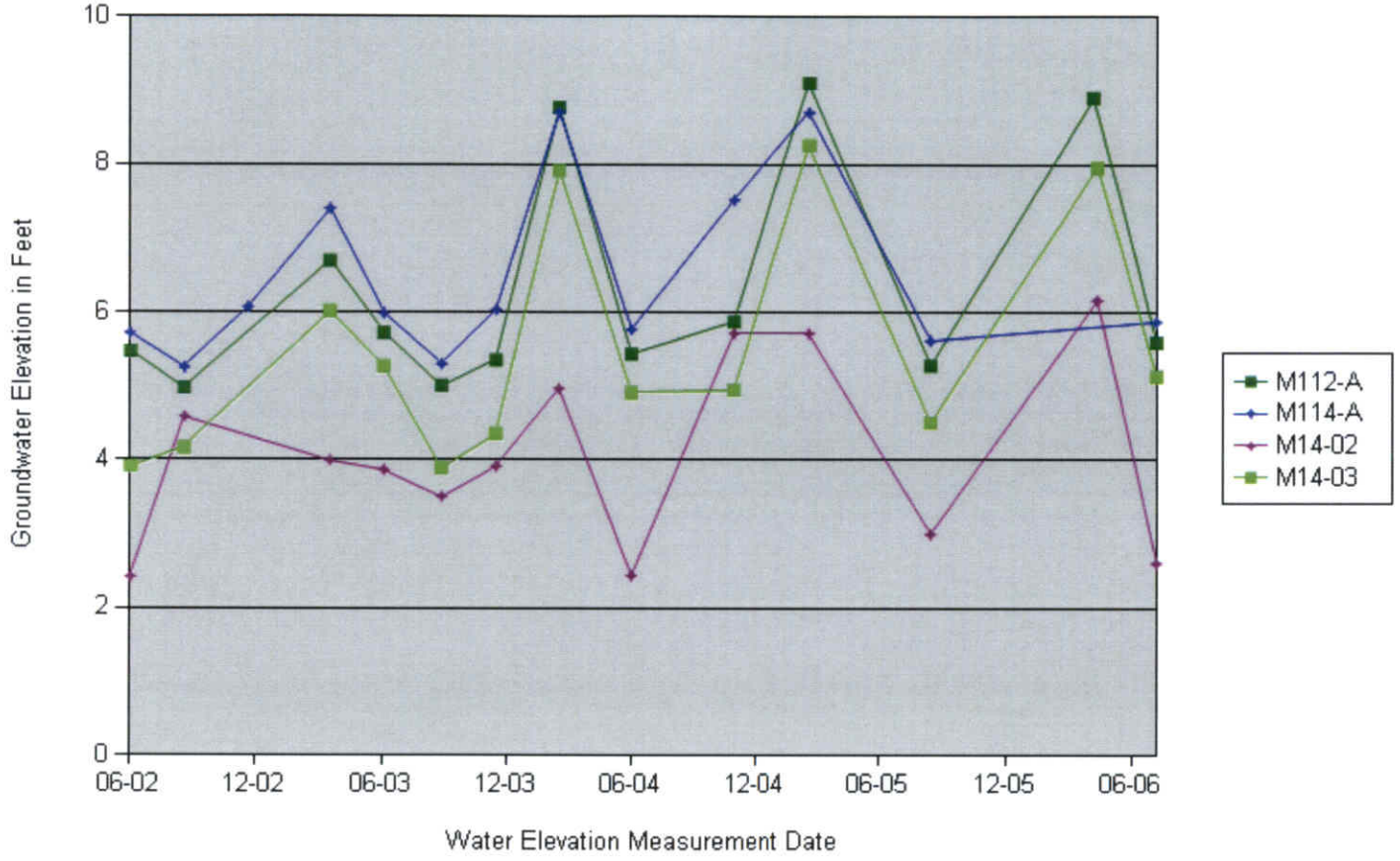
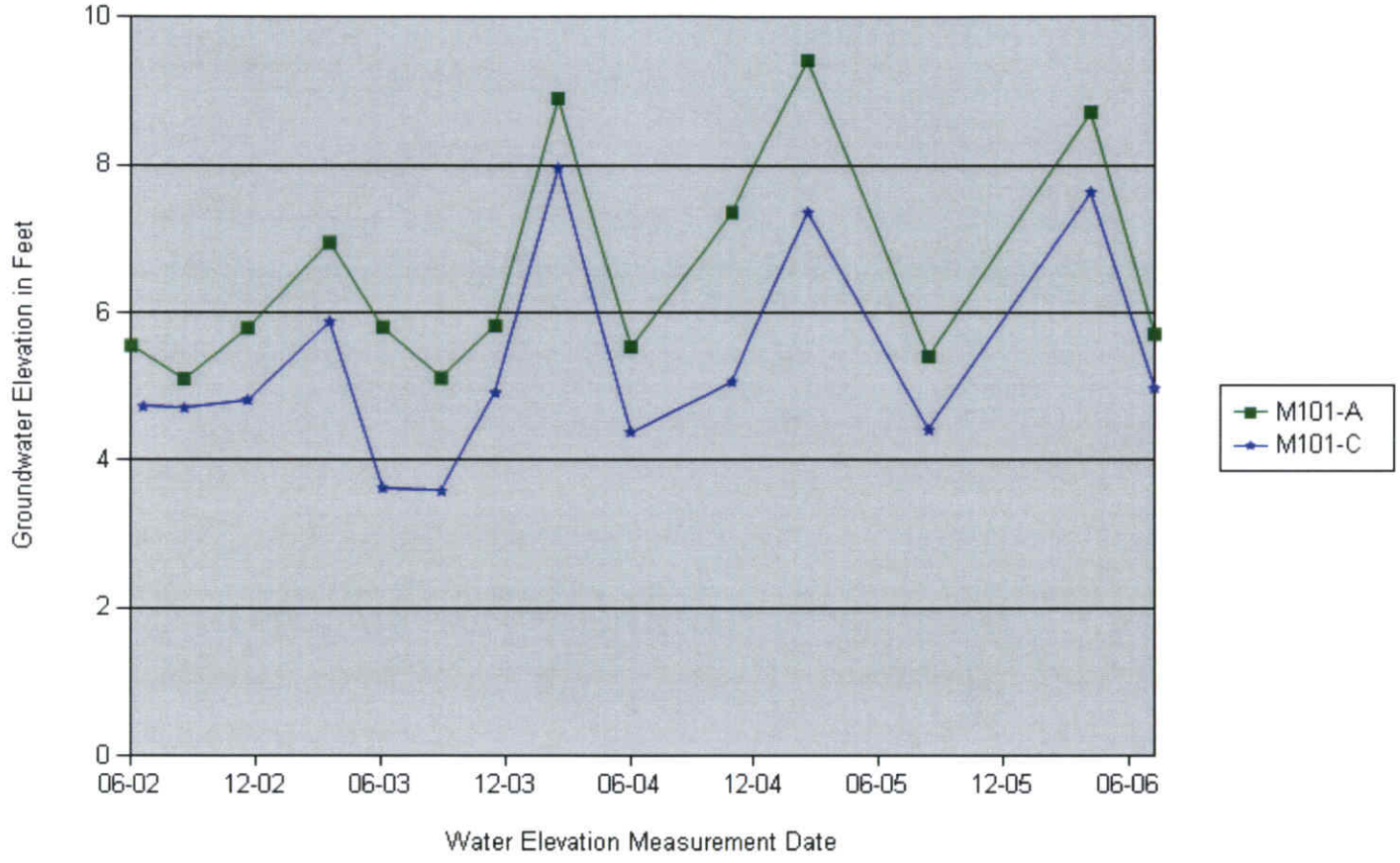
FIGURE 11-3
IR SITE 14
GROUNDWATER DISTRIBUTION OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006



Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 11-4a** TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 14: NORTH-SOUTH ORIENTED FWBZ WELLS SUMMER 2002 THROUGH SPRING 2006



Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 11-4b** TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 14: PEIRED WELLS (FWBZ WELL M101-A & SWBZ WELL M101-C) SUMMER 2002 THROUGH SPRING 2006

Legend

- 0.5 - 6.0 ug/L cis 1,2-DCE
- > 6.0 ug/L cis 1,2-DCE
- 6.0 ug/L MCL Contour for cis 1,2-DCE
- Dashed where Inferred
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility Infrastructure

Oakland Inner Harbor

M14-02

FS1MJ-MW-3

M14-03

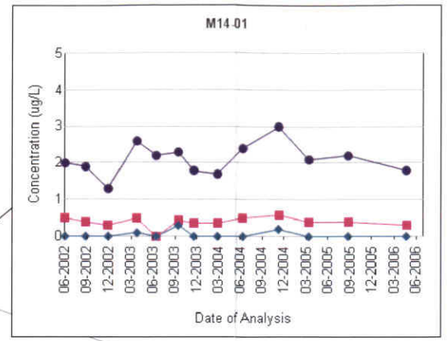
D14-01

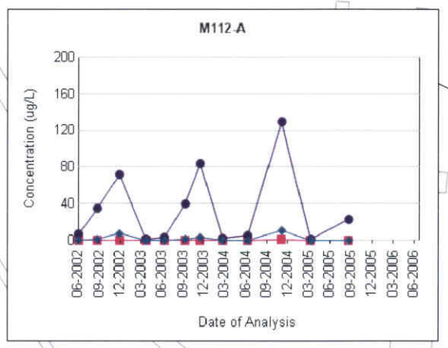
6.0

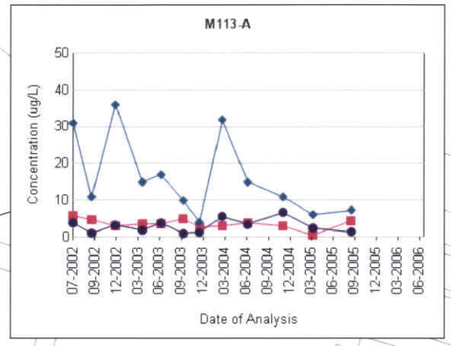
M101-C

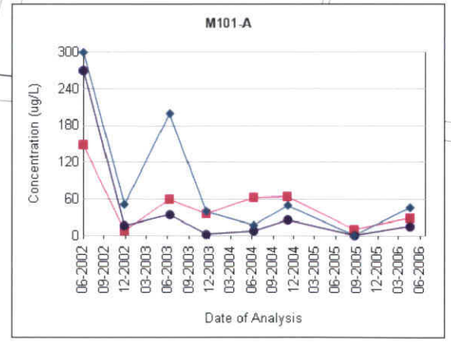
M114-A

IR Site 14









1,1 DCA
cis 1,2 DCE
Vinyl Chloride

Analyte	MCL	Units
1,1 DCA	5.0	UG/L
cis 1,2 DCE	6.0	UG/L
Vinyl Chloride	0.50	UG/L

N

200 0 200

Feet

Innovative Technical Solutions, Inc.

U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 11-5
IR SITE 14
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 14 GW Contours Spr 2006.mxd

12.0 INSTALLATION RESTORATION SITE 16

IR Site 16 is located in the southeastern corner of Alameda Point (Figure 1-2) and constitutes approximately 11 acres of the southernmost portion of the southern industrial area. The site was originally designated as an IR site based on concerns related to equipment storage and PCB oils. Subsequent investigations revealed the presence of chlorinated solvents and aromatic hydrocarbons (mainly dichlorobenzene isomers) in groundwater. The chlorinated VOCs are currently the focus of the groundwater investigation at the site.

IR Site 16 consists mainly of paved areas, former Buildings 338, 402, and 584, and Buildings 608 and 620. The Navy used this Container Storage Area (typically referred to as the CANs) for over 50 years as a storage area for various operations. The main portion of IR Site 16 occupies 6.5 acres, including 3 acres of storage yard and 3.5 acres of large shipping containers placed in the yard in 1948; the CANs have been converted into storage buildings. Before 1948, the storage yard was used for aircraft parking and storage of unspecified paints, solvents, acids, and bases, in addition to transformers containing PCB oils (TtEMI, 1999a). A soil removal action for PCBs in soil was completed west of the CANs in 1997 and 1998. The temporary aircraft runway plates were removed and the upper two feet of soil was excavated.

Building 608 was constructed in 1981 and was used as an auto service and repair facility from 1981 through 1996. Multiple service bays and hydraulic lifts were located in the building. Underground storage tank UST 608-1, removed in 1995, was located northwest of Building 608 and was used for storage of waste oil. A 1,500-gallon (estimated) aboveground petroleum storage tank was located at the southeast corner of Building 608. Chemicals associated with automobile servicing included miscellaneous petroleum products, such as lubricating oil, motor oil, transmission oil, and gear oil, packaged products, such as engine degreaser, brake and carburetor cleaning solvents, and octane booster, bulk solvents, such as washing solvent, and brake cleaning solvent. A 1,000-gallon above-ground storage tank was also located north of Building 620, north of West Hornet Avenue and west of Skyhawk Street.

Potential contamination sources at IR Site 16 include the following:

- Leaking drums, transformers, and storage containers containing paints, solvents, acids, bases, and PCB oils
- PCB oils that were sprayed onto the grounds for weed control
- Corrosion materials and particulates from aircraft parts, electrical equipment, and paint stripping baths
- Waste sumps and a former UST 608-1 associated with Building 608 (Auto Hobby Shop).

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 16 included sampling and analysis of seven FWBZ groundwater monitoring wells. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 12-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. The site and well locations are presented on Figure 12-1.

12.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from seven FWBZ groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 16. The results are presented along with previously collected water-level data in Table 12-2. Groundwater flow direction and gradient are discussed in Section 12.4.1; trends in groundwater elevations are discussed in Section 12.4.4.

12.2 ANALYTICAL PARAMETERS

Groundwater samples collected at IR Site 16 wells during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- TPH by EPA Method 8015B and VOCs by EPA Method 8260B
- 1,4-Dioxane by EPA Method 8270 SIM
- Organochlorine Pesticides by EPA Method 8081A
- PCBs by EPA Method 8082
- Dissolved Metals by EPA Methods 6010B/6020A/7470A/7196A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 12-1 lists groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

12.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 and Spring 2006) along with previously obtained analytical results are summarized in the following tables:

- Table 12-3, "Groundwater Sample Analytical Results at IR Site 16: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 12-4, "Groundwater Sample Analytical Results at IR Site 16: 1,4-Dioxane, Fall/Winter 2004 through Spring 2006"
- Table 12-5, "Groundwater Sample Analytical Results at IR Site 16: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 12-6, "Groundwater Sample Analytical Results at IR Site 16: Polychlorinated Biphenyls, Summer 2002 through Spring 2006"
- Table 12-7, "Groundwater Sample Analytical Results at IR Site 16: Organochlorine Pesticides, Summer 2002 through Spring 2006"
- Table 12-8, "Groundwater Sampling Field Parameters at IR Site 16, Summer 2002 through Spring 2006"
- Table 12-9, "Groundwater Sample Analytical Results at IR Site 16: Natural Attenuation Parameters, Summer 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

12.4 DISCUSSION OF RESULTS

Groundwater samples collected in the current sampling year indicate that TPH groundwater concentrations were low to non-detect for most of the site wells, and exhibited TPH concentrations significantly greater than the reporting limit for two site wells; three wells were not analyzed for TPH. Although no MCL exists for TPH compounds, the maximum concentration of the sum of the TPH fractions at the site during this sampling year was 22 µg/L at well 608MJ-MW2, with TPH characterized as gasoline being the primary component (Table 12-3).

MCL exceedances of aromatic hydrocarbons (**1,2-dichlorobenzene [1,2-DCBZ] and 1,4-DCBZ**) and chlorinated hydrocarbons (**PCE, cis-1,2-DCE, and vinyl chloride**) occurred at IR Site 16 during historical and recent sampling events (Table 12-3). These contaminants have been consistently detected in samples collected from a few site groundwater monitoring wells screened in the artificial fill and bay sediment units of the FWBZ.

PCBs were not detected during the current sampling year (Table 12-6). Very low levels of a few pesticide compounds were detected during the current sampling year (Table 12-7); **heptachlor epoxide** was the only pesticide detected at concentrations exceeding its MCL. Dissolved metals detected in excess of MCLs during the current sampling year include **arsenic and thallium** at three wells each (Table 12-5). While the arsenic values were significantly above background, thallium values were very close to background and likely do not signify a contaminant plume.

12.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 12-2. Groundwater flow direction in the FWBZ at IR Site 16 ranges from west to southwest. The groundwater gradient varies between approximately 0.003 feet per foot in the northern part of the site and 0.01 feet/foot in the southern portion of the site. Although SWBZ contours are included on Figure 12-2, the potentiometric surface is based on nearby sites; no SWBZ wells exist at IR Site 16. The predominant feature of the FWBZ groundwater potentiometric surface is a trough in the southern portion of IR Site 16.

12.4.2 Groundwater Contaminant Distribution

Chlorinated and aromatic hydrocarbons were detected in groundwater at IR Site 16 at concentrations exceeding MCLs in the current sampling year. The distributions of selected chlorinated and selected aromatic hydrocarbons are shown on Figure 12-3.

PCE was chosen as an indicator compound for Figure 12-3 to represent the distribution of chlorinated VOCs in groundwater detected at concentrations exceeding MCLs. The chlorinated VOC plume is centered on well 608MJ-MW2 in the southwestern portion of IR Site 16.

1,4-DCBZ was chosen as an indicator compound for Figure 12-6 to represent the distribution of aromatic VOCs in groundwater detected at concentrations exceeding MCLs. Unlike the chlorinated VOC plume, the aromatic VOC plume is centered on well MWC2-2 in the western portion of IR Site 16.

Among IR Site 16 metals results for the current sampling year, only arsenic and thallium exceeded an MCL. Thallium exceeded MCLs at three wells, but in all cases these were the only exceedances since 2002; thus the thallium exceedances do not represent ongoing contamination. Arsenic has consistently exceeded its MCL at three Site 16 wells: MW16-05, MW-16-06, and MWC2-1. These wells are located somewhat near each other, and may represent a small area of arsenic contamination slightly above MCLs and basewide background values for arsenic.

12.4.3 Comparison of Current Analytical Results with Historical Data

A comprehensive summary of the groundwater sampling analytical results for the current sampling year is provided in Table 12-10, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. In addition, Table 12-10 also lists the historical maximum concentration for each analyte. Concentrations exceeding MCLs are highlighted in yellow.

In general, most of the analytes detected at concentrations exceeding MCLs during the Summer 2005 through Spring 2006 sampling year were similar to previous sampling years (Table 12-10), with a few exceptions: trichloroethene, chlorobenzene, 1,2-dichlorobenzene, and nickel exceeded the MCL during historical sampling, but not during the current sampling year.

12.4.4 Trends in Groundwater Elevation Data

For IR Site 16, two hydrographs have been prepared for the Spring 2006 Annual Report, as follows:

- Figure 12-4a, "Trends in Groundwater Elevations at Site 16: FWBZ Wells Located in Northwest Portion"
- Figure 12-4b, "Trends in Groundwater Elevations at IR Site 16: FWBZ Wells Located in Southern Portion"

The following observations can be made from viewing the hydrographs:

1. Groundwater elevations at IR Site 16 show a generally consistent seasonal pattern across the site, with seasonal high groundwater elevations in spring and seasonal lows in late summer and fall. Although the degree of seasonal fluctuation varies, a similar pattern is apparent even for widely spaced monitoring wells (Figures 12-4a and 12-4b).
2. An overall increase in groundwater elevations over time is apparent; i.e. peak seasonal elevations for most wells have shown a tendency to increase each year since 2002. These changes are likely due to an overall increase in precipitation during the measurement interval.

12.4.5 Trends in Groundwater Contaminant Concentrations

Concentrations of aromatic and chlorinated hydrocarbons have been consistently detected in groundwater from a few IR Site 16 wells since monitoring was initiated at the site in Summer 2002. Trends in groundwater concentrations of selected constituents over time are shown on Figures 12-5 and 12-6.

The groundwater concentrations of chlorinated and aromatic hydrocarbons in wells MWC2-2 and 608MJ-MW2 show significant fluctuations. These may be related to the influence of seasonal fluctuations in groundwater elevations. The overall trends of the time-series plots for these wells indicate a general decrease in peak concentrations over time for most analytes. In addition, plume boundaries appear to be stable. Wells defining the plume boundaries consistently show low to non-detect concentrations of organic constituents. In general, the same constituents tend to show up in the same wells from one sampling event to another.

12.5 CONCLUSIONS AND RECOMMENDATIONS

As discussed in the previous sub-sections, IR Site 16 contaminants of concern include several chlorinated and aromatic hydrocarbons, as presented in the plume diagrams on Figures 12-3 and

12-6. Trends over time shown on Figures 12-5 and 12-6 suggest that, in wells showing significant detections, the concentrations of major contaminants have been decreasing over time during the monitoring program.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 12-1
Groundwater Monitoring Summary, IR Site 16 - Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds						Inorganic Compounds	Natural Attenuation Parameters				
				TPH- E as Diesel, Jet Fuel, Motor Oil (EPA 8015B)	TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	1,4-Dioxane (EPA 8270 SIM)	Pesticides (EPA 8081A)	PCBs (EPA 8082)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Groundwater Monitoring Program Wells															
First	608MJ-MW2	Fill-BSU	3.2 - 11.5	X	X	X	X	X	X	X	X	X	X	X	X
	F16SS-MW06	Fill-BSU	5 - 15			X	X	X	X		X	X	X	X	X
	MW16-05	Fill-BSU	5 - 14.5			X	X	X	X	X	X	X	X	X	X
	MW16-06	Fill-BSU	5 - 14.5			X	X	X	X	X	X	X	X	X	X
	MWC2-1	Fill-BSU	5 - 15	X	X	X	X		X	X	X	X	X	X	X
	MWC2-2	Fill-BSU	5 - 15	X	X	X	X		X	X	X	X	X	X	X
	MWC2-3	Fill-BSU	5 - 15	X	X	X	X	X	X	X	X	X	X	X	X

Notes:

Well sampled for this parameter at the Summer 2005 sampling event

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
PCBs - Polychlorinated Biphenyls

(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 12-2
Summary of Groundwater Level Measurements at IR Site 16
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	608MJ-MW2	11.3	11.05 *	04/11/06	2.7	8.35
		11.3	11.05 *	08/23/05	3.42	7.63
		11.3	11.05 *	02/28/05	3.18	7.87
		11.3	11.05 *	11/08/04	4.59	6.46
		11.3	11.05 *	06/15/04	4.55	6.50
		11.3	11.05 *	03/01/04	3.51	7.54
		11.3	11.05 *	12/04/03	4.60	6.45
		11.3	11.05 *	09/15/03	4.69	6.36
		11.3	11.05 *	06/23/03	4.16	6.89
		11.3	11.05 *	04/07/03	3.89	7.16
		11.3	11.05 *	12/11/02	4.66	6.39
		11.3	11.05 *	09/03/02	4.73	6.32
		11.3	11.05 *	06/17/02	4.24	6.81
First	MWC2-1	12.1	11.32 *	04/11/06	2.06	9.26
		12.1	11.32 *	08/23/05	3.55	7.77
		12.1	11.32 *	02/28/05	3.12	8.20
		12.1	11.32 *	11/08/04	4.22	7.10
		12.1	11.32 *	06/15/04	3.87	7.45
		12.1	11.32 *	03/01/04	3.21	8.11
		12.1	11.32 *	12/04/03	4.40	6.92
		12.1	11.32 *	09/15/03	4.74	6.58
		12.1	11.32 *	06/23/03	3.63	7.69
		12.1	11.32 *	04/07/03	3.47	7.85
		12.1	11.32 *	12/11/02	4.02	7.30
		12.1	11.32 *	09/03/02	4.00	7.32
		12.1	11.32 *	06/17/02	3.63	7.69
First	MWC2-2	13.2	12.47 *	04/11/06	3.07	9.40
		13.2	12.47 *	08/23/05	5.11	7.36
		13.2	12.47 *	02/28/05	4.08	8.39
		13.2	12.47 *	11/08/04	5.85	6.62
		13.2	12.47 *	06/15/04	5.32	7.15
		13.2	12.47 *	03/01/04	4.37	8.10
		13.2	12.47 *	12/04/03	5.91	6.56
		13.2	12.47 *	09/15/03	4.23	8.24
		13.2	12.47 *	06/23/03	4.92	7.55
		13.2	12.47 *	04/07/03	4.71	7.76
		13.2	12.47 *	12/11/02	5.62	6.85
		13.2	12.47 *	09/03/02	5.36	7.11
		13.2	12.47 *	06/17/02	4.92	7.55
First	MWC2-3	10.7	10.41 *	04/11/06	1.10	9.31
		10.7	10.41 *	08/23/05	3.34	7.07
		10.7	10.41 *	02/28/05	1.86	8.55
		10.7	10.41 *	11/08/04	3.55	6.86
		10.7	10.41 *	06/15/04	3.45	6.96
		10.7	10.41 *	03/01/04	1.82	8.32
		10.7	10.41 *	12/04/03	3.47	6.67
		10.7	10.41 *	09/15/03	2.56	7.58

Table 12-2
Summary of Groundwater Level Measurements at IR Site 16
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	MWC2-3	10.7	10.41 *	06/23/03	3.19	6.95
		10.7	10.41 *	04/07/03	2.89	7.25
		10.7	10.41 *	12/11/02	3.73	6.41
		10.7	10.41 *	09/03/02	3.74	6.40
		10.7	10.41 *	06/17/02	3.27	6.87
First	MW16-05	12.42	12.42	04/11/06	3.50	8.92
		12.42	12.42	08/23/05	5.46	6.96
		12.42	12.42	02/28/05	5.38	7.04
		12.42	12.42	11/08/04	6.20	6.22
		12.42	12.42	06/15/04	6.35	6.07
First	MW16-06	11.60	11.60	04/11/06	3.06	8.54
		11.60	11.60	08/23/05	12.72	-1.12
		11.60	11.60	02/28/05	3.93	7.67
		11.60	11.60	11/08/04	5.03	6.57
		11.60	11.60	06/15/04	5.45	6.15
First	F16SS-MW06	11.12	11.12	04/11/06	4.21	6.91
		11.12	11.12	08/23/05	5.44	5.68
		11.12	11.12	02/28/05	4.36	6.76
		11.12	11.12	11/11/04	4.37	6.75
		11.12	11.12	06/15/04	5.42	5.70

Notes:
BTOC = below top of casing
msl = mean sea level

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

Table 12-3

Groundwater Sample Analytical Results at IR Site 16: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons								
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	608MJ-MW2	2006 01 (Spring)	< 50.0	< 50.0	< 300	**22.0 J**	**22.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**14.0**	**1.8**	< 0.50	**1.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**17.0**	**3.8**	< 0.50	**11.0**	**0.20 J**	< 0.50	< 0.50	< 0.50	**1.1**
		2004 04 (Winter)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	**53.0**	**53.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**50.0**	**11.0**	**0.20 J**	**67.0**	**0.50**	< 0.50	< 0.50	< 0.50	**3.7**
		2003 04 (Winter)	< 190	< 290	< 190	**28.0 J**	**28.0**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**14.0**	**7.3**	**0.21 J**	**55.0**	**0.52 J**	< 1.0	< 0.50	< 1.0	**1.0**
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**21.0**	**4.8**	< 1.0	**40.0**	**0.61 J**	< 1.0	< 0.50	< 1.0	**2.2**
		2002 04 (Winter)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	**59.0**	**34.0**	< 0.50	**61.0**	**0.40 J**	< 0.50	< 0.50	< 0.50	**0.50**
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**10.0**	**4.2**	< 0.50	**36.0**	**0.30 J**	< 0.50	< 0.50	< 0.50	**4.3**
	F16SS-MW06	2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	**2.1**	< 2.0	**0.60 J**	< 2.0	< 2.0	< 2.0	**0.80 J**	< 2.0	**1.1 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	**0.90**	< 0.50	**0.50**	< 0.50	< 0.50	**0.80**	**0.90**	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.40 J**	< 0.50	**0.60**	< 0.50	< 0.50	**0.80**	**0.90**	< 0.50	**1.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.090 J**	< 0.50	**1.9**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**3.2**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.10 J**	**0.80**	< 0.50	**0.20 J**	< 0.50	**0.50**	< 0.50	**5.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**3.2**	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2006 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.080 J**	< 0.50	**0.90**	< 0.50	**0.090 J**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.50**	< 0.50	**5.3**	**0.10 J**	**0.40 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.60**	< 0.50	**9.3**	**0.10 J**	**0.50**	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.80**	< 0.50	**17.0**	**0.50 J**	**0.50**	< 0.50	< 0.50	< 0.50
	MWC2-1	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**2,200**	**990**	**780**	< 50.0	**3,970**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50 J	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.60**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50
	MWC2-2	2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**3.9**	**27.0**	**1.2**	**6.8**	< 0.50	**2.5**	< 0.50	**0.60**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**8.6**	**62.0**	**2.6**	**13.0**	< 0.50	**1.7**	< 0.50	**1.9**	**0.90**	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**130**	**580**	< 300	**760**	**1,470**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	**130**	**830**	**26.0**	**140**	< 5.0	< 5.0	< 5.0	**7.3**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2004 02 (Summer)	< 50.0	**77.0**	< 300	**260**	**337**	**0.20 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	**30.0**	**200**	**6.4**	**30.0**	< 1.0	**1.8**	< 1.0	**2.2**	**0.70 J**	< 1.0	< 1.0	< 1.0	< 1.0
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**1.7**	**41.0**	**2.0**	**8.2**	< 1.0	**2.7**	< 1.0	**0.60 J**	**0.36 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 200	**1,400**	< 200	**4,600**	**6,000**	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**9.2**	**4,500**	**130**	**520**	**0.22 J**	**5.3**	< 1.0	**1.9**	**0.44 J**	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 12-3

Groundwater Sample Analytical Results at IR Site 16: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH					Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Diesel	TPH-Jet Fuel	TPH-Motor Oil	TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	MWC2-2	2003 03 (Fall)	-	-	-	-	-	< 0.50 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 2.0 UJ	< 5.0 UJ	**5.6 J**	**2,100**	**32.0 J**	**230**	< 1.0 UJ	**4.7 J**	< 1.0 UJ	**2.0 J**	**0.46 J**	< 1.0 UJ	< 0.50 UJ	< 1.0 UJ	< 0.50 UJ
		2003 02 (Summer)	-	-	-	-	-	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	**3.8**	**480**	**16.0**	**76.0**	< 1.0	**2.0 J**	< 1.0	**0.98 J**	**0.21 J**	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**3.6**	**170**	**9.6**	**40.0**	< 0.50	**2.9**	< 0.50	**1.0**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 13.0	< 3.1	**170**	**1,800**	**55.0**	**280**	< 3.1	**3.4**	< 3.1	**7.2**	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**2.6**	**200**	**12.0**	**54.0**	< 0.50	**4.4**	< 0.50	**1.5**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	**130**	< 300	**230**	**360**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	**2.6**	**240**	**11.0**	**48.0**	< 1.0	**3.8**	< 1.0	**1.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	MWC2-3	2006 01 (Spring)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**86.0**	< 50.0	< 300	< 50.0	**86.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.23 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 190	< 280	< 190	< 50.0	< 280	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.20 J**	< 1.0	**0.37 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	-	-	-	-	-	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.24 J**	< 1.0	**0.54 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	-	-	-	-	-	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0	**0.50 J**	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	-	-	-	-	-	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 2.0	< 0.50	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50	< 0.50 J	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	-	-	-	-	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**0.50**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 300	< 50.0	< 300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.40 J**	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 12-4
Groundwater Sample Analytical Results at IR Site 16: 1,4-Dioxane
Fall/Winter 2004 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			1,4-Dioxane
		Units:	UG/L
		MCL:	**NA**
		BV:	**NA**
	Well Number	Event ***AWQC:***	**NA**
FWBZ	608MJ-MW2	2006 01 (Spring)	**0.52 J**
		2005 02 (Summer)	< 0.96
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	< 0.96
	F16SS-MW06	2005 01 (Spring)	< 0.94
		2005 02 (Summer)	< 0.94
		2004 04 (Winter)	< 0.97
	MW16-05	2006 01 (Spring)	**0.31 J**
		2005 02 (Summer)	< 0.96
		2005 01 (Spring)	**0.32 J**
		2004 04 (Winter)	< 0.97
	MW16-06	2006 01 (Spring)	< 0.95
		2005 02 (Summer)	< 0.95
		2005 01 (Spring)	< 0.96
		2004 04 (Winter)	< 0.98
	MWC2-1	2005 02 (Summer)	< 0.94
		2005 01 (Spring)	< 0.94
		2004 04 (Winter)	**4.1 J**
	MWC2-2	2005 01 (Summer)	< 0.94
		2005 01 (Spring)	< 0.95
		2004 04 (Winter)	< 0.97
	MWC2-3	2006 01 (Spring)	<0.95
		2005 02 (Summer)	< 0.95
		2005 01 (Spring)	< 0.94
		2004 04 (Winter)	< 0.95

Table 12-5

Groundwater Sample Analytical Results at IR Site 16: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																	Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
608MJ-MW2	2006 01 (Spring)		0.13 J	3.9 J	-	< 2.0	< 5.0	< 10.0	-	< 10.0	< 3.0	-	< 0.20	-	6.3 J	< 5.0	< 5.0	2.2 J	-	6.7 J	-	-	-	-	-	-
	2005 02 (Summer)		1.4	**10.0**	100	< 2.0	0.37 J	1.2 J	0.94 J	< 10.0	< 3.0	63.0	< 0.20	< 20.0	6.0 J	< 5.0	< 5.0	< 5.0	**9.1 J**	< 20.0	< 100	48.0 J	41.0	10.0	15.0	23.0
	2004 04 (Winter)		0.87 J	< 5.0	30.0	< 2.0	0.64 J	< 10.0	3.8	**13.0**	1.1 J	110	< 0.20	1.0 J	**17.0 J**	< 5.0	< 5.0	< 5.0	2.1 J	7.0 J	< 100	31.0 J	17.0	4.2	5.1	14.0
	2004 02 (Summer)		1.8	**10.0**	110	< 1.0	**28.0**	0.18 J	**70.0**	**90.0**	**270**	**1,200**	< 0.20	1.9 J	**71.0**	< 1.0	< 1.0	0.29 J	**17.0**	**260**	< 50.0	790	37.0	11.0	22.0	16.0
	2003 04 (Winter)		< 5.0	**19.0 J**	94.7 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	**2.5 J**	57.1	< 0.40 UJ	< 50.0	**18.3 J**	< 20.0	< 10.0	-	**14.8 J**	< 20.0	< 200	< 100	37.4 J	11.9 J	17.8 J	18.3 J
	2003 02 (Summer)		< 50.0	**14.9 J**	75.4 J	< 4.0	< 5.0	< 10.0	3.5 J	< 10.0	< 10.0	184	< 0.40 UJ	< 50.0	**28.1**	< 20.0	< 10.0	< 5.0	3.5 J	8.4 J	< 200	33.6 J	33.9	10.4	9.9 J	21.0
	2002 04 (Winter)		0.93 J	< 5.0	**200**	< 2.0	**45.0**	< 10.0	**290**	**210**	**450**	**3,900**	< 0.20	< 20.0	**550**	0.43 J	< 5.0	< 2.0	8.2 J	**360 J**	< 100	**5,500**	110	33.0	17.0	27.0
	2002 02 (Summer)		0.50 J	3.0 J	57.0	0.085 J	0.089 J	0.68 J	0.28 J	0.76 J	0.25 J	85.0	< 0.20	< 20.0	0.81 J	< 5.0	0.053 J	< 2.0	0.69 J	2.9 J	5.7 J	78.0 J	29.0	7.4	10.0	10.0
MW16-05	2006 01 (Spring)		< 1.0	7.9	-	0.24 J	0.42 J	1.8 J	-	< 10.0	< 3.0	-	< 0.20	-	2.8 J	< 5.0	< 5.0	< 5.0	-	2.7 J	-	-	-	-	-	-
	2005 02 (Summer)		0.70 J	**19.0**	19.0	< 2.0	< 5.0	2.0 J	0.12 J	2.6 J	< 3.0	71.0	< 0.20	< 20.0	1.8 J	< 5.0	< 5.0	1.5 J	**12.0**	1.7 J	< 100	40.0 J	14.0	10.0	21.0	530
	2004 04 (Winter)		< 1.0	**25.0**	10.0	< 2.0	< 5.0	< 10.0	0.096 J	0.90 J	0.34 J	29.0	< 0.20	3.7 J	< 20.0	< 5.0	< 5.0	< 5.0	**13.0**	3.3 J	< 100	50.0 J	6.7	4.5	14.0	410
	2004 02 (Summer)		2.8	**35.0**	7.4	< 1.0	< 1.0	1.5	0.12 J	1.2	0.12 J	12.0	< 0.20	4.2 J	1.4	1.5	< 1.0	< 1.0	**41.0**	**14.0**	16.0 J	27.0 J	4.5 J	3.2	11.0	380
MW16-06	2006 01 (Spring)		< 1.0	**9.7**	-	< 2.0	< 5.0	2.3 J	-	**3.9 J**	< 3.0	-	< 0.20	-	2.2 J	< 5.0	< 5.0	< 5.0	-	**14.0 J**	-	-	-	-	-	-
	2005 02 (Summer)		1.8	**15.0**	< 10.0	< 2.0	< 5.0	< 10.0	0.13 J	< 10.0	< 3.0	3.5 J	< 0.20	**8.1 J**	< 20.0	**4.2 J**	< 5.0	< 5.0	**16.0**	7.1 J	< 100	12.0 J	6.5	3.7	< 10.0	120
	2004 04 (Winter)		1.1	**24.0**	5.8 J	< 2.0	< 5.0	< 10.0	0.096 J	3.2 J	0.44 J	< 10.0	< 0.20	**7.0 J**	< 20.0	< 5.0	< 5.0	0.27 J	**19.0**	4.4 J	3.0 J	< 100	5.3	2.6	9.8	210
	2004 02 (Summer)		3.4	**25.0**	6.3	< 1.0	< 1.0	0.78 J	0.20 J	2.9	0.16 J	7.6	< 0.20	**9.7**	2.0	1.4	< 1.0	< 1.0	**24.0**	9.9	21.0 J	29.0 J	4.5 J	2.6	9.2	180
MWC2-1	2005 02 (Summer)		0.93 J	**28.0**	12.0	< 2.0	< 5.0	< 10.0	0.67 J	**17.0**	< 3.0	35.0	< 0.20	< 20.0	4.5 J	< 5.0	< 5.0	< 5.0	**28.0**	**22.0**	< 100	44.0 J	5.3	1.6	6.2	120
	2004 04 (Winter)		2.5	7.2	39.0	< 2.0	< 5.0	1.1 J	0.071 J	4.3 J	0.27 J	3.1 J	< 0.20	2.2 J	< 20.0	< 5.0	< 5.0	< 5.0	**11.0**	9.8 J	< 100	74.0 J	18.0	5.2	6.8	62.0
	2004 02 (Summer)		1.1	**37.0**	27.0	< 1.0	< 1.0	1.5	0.19 J	**9.7**	0.54 J	16.0	0.051 J	3.6 J	3.2	**2.8**	< 1.0	< 1.0	**100**	**14.0**	25.0 J	< 100	11.0	3.9	8.1	120
	2003 04 (Winter)		< 5.0	**16.0 J**	29.2 J	< 4.0	< 5.0	< 10.0	< 10.0	**7.8 J**	< 10.0	23.7	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	6.7 J	< 20.0	**119 J**	167	13.5 J	4.7 J	8.6 J	88.4 J
	2003 02 (Summer)		< 50.0	**31.1 J**	24.6 J	< 4.0	< 5.0	< 10.0	< 10.0	**12.9**	< 10.0	41.7 J	-	< 50.0	< 20.0	**5.5 J**	< 10.0	< 5.0	**10.3 J**	4.6 J	30.3 J	62.4 J	8.3	3.4	9.4 J	124 J
	2002 04 (Winter)		< 50.0	5.0	71.0	< 2.0	< 5.0	< 10.0	0.11 J	1.2 J	0.082 J	20.0	< 0.20	< 20.0	0.84 J	< 5.0	< 5.0	< 2.0	4.9 J	3.1 J	< 100	< 150	23.0	11.0	10.0	34.0
	2002 02 (Summer)		0.29 J	**28.0**	57.0	< 2.0	< 5.0	2.0 J	0.22 J	5.3 J	0.14 J	26.0	0.072 J	4.1 J	2.5 J	< 5.0	< 5.0	< 2.0	**8.8 J**	3.4 J	13.0 J	170	67.0	3.0	11.0	200
MWC2-2	2005 02 (Summer)		0.68 J	1.8 J	120	< 2.0	< 5.0	1.2 J	1.2	5.6 J	< 3.0	46.0	< 0.20	< 20.0	2.7 J	**14.0**	< 5.0	**2.7 J**	6.0 J	**18.0 J**	< 100	26.0 J	210	83.0	42.0	89.0
	2004 04 (Winter)		1.3	4.9 J	76.0	< 2.0	0.20 J	< 10.0	0.65 J	5.3 J	0.27 J	88.0	< 0.20	**6.5 J**	< 20.0	< 5.0	< 5.0	< 5.0	5.3 J	5.5 J	< 100	< 100	110	43.0	35.0	140
	2004 02 (Summer)		2.0	2.6	96.0	< 1.0	< 1.0	1.8	2.2	**8.9**	0.069 J	280	< 0.20	**5.8**	**9.0**	**13.0**	< 1.0	< 1.0	4.2	**12.0**	< 50.0	< 100	150	60.0	41.0	93.0
	2003 04 (Winter)		< 5.0	< 50.0	108	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	769	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	-	< 50.0	< 20.0	< 200	< 100	240 J	99.6 J	40.1 J	60.4 J
	2003 02 (Summer)		< 50.0	< 50.0	**138**	< 4.0	< 5.0	< 10.0	< 10.0	1.4 J	< 10.0	267	< 0.40 UJ	< 50.0	2.3 J	< 20.0	< 10.0	< 5.0	1.6 J	< 20.0	< 200	< 100	196	82.0	36.4 J	86.3
	2002 04 (Winter)		< 50.0	< 5.0	120	< 2.0	< 5.0	< 10.0	0.26 J	0.94 J	0.10 J	300	< 0.20	1.8 J	3.9 J	0.67 J	< 5.0	< 2.0	< 10.0	0.84 J	< 100	530	110	45.0	26.0	110
	2002 02 (Summer)		0.13 J	1.5 J	**160**	< 2.0	< 5.0	2.1 J	0.13 J	1.1 J	0.058 J	120	0.046 J	< 20.0	1.7 J	0.93 J	< 5.0	< 2.0	2.4 J	1.6 J	< 100 J	200	82.0	32.0	23.0	89.0
MWC2-3	2006 01 (Spring)		< 1.0	< 5.0	-	< 2.0	< 5.0	< 10.0	-	0.79 J	< 3.0	-	< 0.20	-	< 20.0	< 5.0	< 5.0	2.1 J	-	< 20.0	-	-	-	-	-	-
	2005 02 (Summer)		0.63 J	6.4	37.0	< 2.0	< 5.0	< 10.0	< 1.0	< 10.0	< 3.0	22.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	1.8 J	< 20.0	< 100	32.0 J	13.0	4.9	7.9	17.0
	2004 04 (Winter)		1.1	< 5.0	98.0	< 2.0	< 5.0	< 10.0	0.12 J	1.6 J	0.29 J	72.0	< 0.20	0.74 J	< 20.0	< 5.0	< 5.0	0.18 J	1.5 J	4.8 J	< 100	150	42.0	14.0	14.0	18.0
	2004 02 (Summer)		0.41 J	2.0	34.0	< 1.0	< 1.0	0.26 J	0.086 J	0.79 J	< 1.0	22.0	< 0.20	< 5.0	0.53 J	0.91 J	< 1.0	< 1.0	1.5	6.4	< 50.0	< 100	13.0	4.5	7.9	14.0
	2003 04 (Winter)		< 5.0	< 50.0	81.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	77.4	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	30.0 J	12.4	13.3	17.2
	2003 02 (Summer)		< 50.0	< 50.0	64.9 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	64.3	< 0.40 UJ	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	< 100	22.3	9.6	10.0 J	16.8
	2002 04 (Winter)		< 50.0	< 5.0	83.0	< 2.0	< 5.0	< 10.0	0.15 J	3.1 J	< 3.0	54.0	< 0.20	< 20.0	2.0 J	< 5.0	< 5.5	< 2.0	3.4 J	8.0 J	< 100	< 160	23.0	9.6	13.0	18.0
	2002 02 (Summer)		0.26 J	1.6 J	53.0	< 2.0	< 5.0	0.40 J	0.082 J	0.53 J	0.039 J	44.0	< 0.20	< 20.0	0.57 J	< 5.0	< 5.0	< 2.0	1.7 J	1.3 J	< 100	37.0 J	17.0	5.3	10.0	17.0

FWBZ

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

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Table 12-6

Groundwater Sample Analytical Results at IR Site 16: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)						
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event** **AWQC:**	NA	NA	NA	NA	NA	NA	NA
FWBZ	608MJ-MW2	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2005 02 (Summer)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	F16SS-MW06	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
	MW16-05	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2005 02 (Summer)	< 0.48	< 0.96	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2005 01 (Spring)	< 0.49	< 0.98	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
		2004 04 (Winter)	< 0.50	< 0.99	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	MW16-06	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
		2005 01 (Spring)	< 0.40	< 0.80	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
	MWC2-1	2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
		2005 01 (Spring)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
		2004 04 (Winter)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
	MWC2-2	2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
		2005 01 (Spring)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49
		2004 04 (Winter)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 12-6

Groundwater Sample Analytical Results at IR Site 16: Polychlorinated Biphenyls

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Polychlorinated Biphenyls (PCBs)						
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	MWC2-3	2006 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2005 02 (Summer)	< 0.47	< 0.94	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47
		2005 01 (Spring)	< 0.48	< 0.95	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
		2004 04 (Winter)	< 0.49	< 0.97	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 12-7

Groundwater Sample Analytical Results at IR Site 16: Organochlorine Pesticides

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Organochlorine Pesticides																				
			Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC	alpha-Chlordane	gamma-Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	0.10	0.10	NA	NA	NA	NA	NA	NA	NA	2.0	2.0	2.0	0.010	0.010	30.0	3.0
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	1.3	NA	NA	NA	0.16	0.0040	0.0040	NA	NA	0.0010	0.0019	0.0087	0.0087	NA	0.0023	NA	NA	0.0036	0.0036	NA	0.0002
FWBZ	608MJ-MW2	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.0080 J**	**0.0050 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.0060 J**	< 0.50	< 1.0
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.020 J**	**0.010 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.010 J**	< 0.50	< 1.0
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.020 J**	**0.0070 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.0070 J**	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	**0.040 J**	< 0.050	< 0.050	**0.040 J**	**0.020 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.020 J**	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.023 J**	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.014 J**	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 4.9
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.042 J**	**0.013 J**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	**0.041 J**	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	**0.013 J**	< 0.48 UJ	< 4.8 UJ
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.020 J**	**0.010 J**	< 0.10	< 0.10	< 0.10 UJ	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.010 J**	< 0.50 UJ	< 1.0
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94 UJ
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	**0.027 J**	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	**0.013 J**	< 0.48	< 0.95
	F16SS-MW06	2006 01 (Spring)	**0.010 J**	< 0.050	< 0.050	**0.010 J**	< 0.050	**0.010 J**	**0.020 J**	< 0.090	< 0.090	< 0.090	< 0.090	**0.030 J**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	**0.050**	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.0050 J**	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	**0.0050 J**	< 0.50	< 0.90
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.0070 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	**0.0090 J**	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	**0.010 J**	< 0.50	< 1.0
	MW16-05	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10 UJ	< 0.10 UJ	< 0.10	< 0.10 UJ	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	MW16-06	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	**0.0070 J**	< 0.050	< 0.050	< 0.050	**0.040 J**	< 0.090	**0.020 J**	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	**0.0090 J**	< 0.050	**0.10 J**	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	**0.10 J**	**0.0060 J**	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
	MWC2-3	2006 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50	< 0.90
		2005 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 04 (Winter)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 02 (Summer)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.050	< 0.050	< 0.50	< 1.0
		2004 01 (Spring)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47	< 4.7
		2003 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 03 (Fall)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48	< 4.8
		2003 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 4.8 UJ
		2003 01 (Spring)	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.050	< 0.050	< 0.50 UJ	< 0.90
		2002 04 (Winter)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.095	< 0.090	< 0.040	< 0.040	< 0.48 UJ	< 0.95
		2002 03 (Fall)	< 0.040	< 0.040	< 0.047	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.47 UJ	< 0.94
		2002 02 (Summer)	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.090	< 0.090	< 0.090	< 0.090	< 0.090	< 0.040	< 0.040	< 0.49	< 0.97

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 12-8
Groundwater Sampling Field Parameters at IR Site 16
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MW16-05	5/2/2006	7.53	7.74	-125
		09/15/05	7.51	4.24	-60
		03/22/05	8.13	0.00	-168
		11/11/04	8.20	0.58	220
		07/08/04	8.01	0.83	-56
First	MW16-06	5/2/2006	7.82	3.27	48
		09/14/05	8.06	3.77	-11
		03/21/05	7.50	***19.99***	112
		11/10/04	8.15	1.10	193
		07/08/04	8.11	0.38	-132
First	608MJ-MW2	5/1/2006	6.97	1.79	54
		09/14/05	371	0.29	77
		03/22/05	6.77	0.00	5.0
		11/11/04	6.80	3.08	223
		07/07/04	7.13	4.80	174
		03/03/04	7.52	0.48	188
		12/04/03	7.72	0.44	97
		09/18/03	7.60	0.45	80
		07/02/03	7.55	0.25	103
		04/11/03	7.17	0.18	1.34
		12/24/02	7.43	1.51	-18
		09/04/02	7.68	1.77	28
		06/17/02	7.68	0.36	125.9
First	F16SS-MW06	5/2/2006	6.79	5.73	129
		09/14/05	7.91	0.43	10
		03/22/05	7.29	2.71	-21
		11/10/04	7.81	0.55	190
		07/08/04	7.64	0.80	-32
First	MWC2-1	09/14/05	8.26	0.04	-82
		03/23/05	7.43	0.92	10
		11/10/04	7.61	6.47	235
		07/07/04	7.92	6.19	34
		03/03/04	8.21	0.50	358
		12/04/03	8.07	0.30	79
		09/18/03	8.19	0.31	113
		07/03/03	8.28	0.25	134
		04/11/03	8.25	0.26	198
		12/24/02	7.58	1.17	80
		09/04/02	8.07	NM	NM
		06/17/02	8.23	0.36	184.1
First	MWC2-2	09/14/05	7.08	NM	119
		03/22/05	7.25	***19.99***	122
		11/11/04	7.10	8.64	189
		07/07/04	7.04	***20.94***	-106
		03/03/04	7.25	***19.80***	316
		12/04/03	7.24	0.20	112
		09/19/03	7.24	0.58	194

Table 12-8
Groundwater Sampling Field Parameters at IR Site 16
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	MWC2-2	07/02/03	7.20	2.30	190
		04/10/03	7.49	1.87	98
		12/26/02	7.55	1.09	118
		09/04/02	7.07	***11.50***	***895***
		06/17/02	7.28	***11.00***	0.0
First	MWC2-3	5/2/2006	7.12	2.71	61
		09/14/05	7.48	0.19	55
		03/22/05	7.04	1.95	-33
		11/10/04	7.36	0.17	195
		12/24/02	7.25	0.41	171
		09/04/02	7.56	0.17	17.1
		06/17/02	7.60	***10.64***	177
		07/07/04	6.98	3.70	190
		03/03/04	7.18	1.85	222
		12/05/03	7.45	0.61	109
		09/18/03	7.50	0.30	114
		07/02/03	7.52	0.36	188
		04/11/03	7.42	0.76	183

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts
NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 12-9
Groundwater Sample Analytical Results at IR Site 16: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	608MJ-MW2	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0080**	**0.44**	**0.050**	**9.9**	**23.0**	**200**	**200**	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.042**	**0.030 J**	**0.040 J**	**17.0**	**34.0**	**140**	**140**	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0030 J**	**0.34**	< 0.050	**6.2**	**26.0**	**59.0**	**59.0**	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	**0.046**	**0.32**	< 0.050	**7.4**	**32.0**	**150**	**150**	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.020**	< 0.10	< 0.10	**9.3**	**15.0**	**129**	**129**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.057**	< 0.10	< 0.10	**10.1**	**16.0**	**132**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**0.66 J**	< 0.050	**12.0**	**200**	**270**	**270**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.042**	< 0.050	< 0.050	**6.7**	**12.0**	**110**	**110**	< 1.0	< 1.0	< 0.040	-
	F16SS-MW06	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**1.8**	< 0.050	**7.3**	**20.0**	**130**	**130**	< 1.0	< 1.0	< 0.040	**240**
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.068**	**0.14**	< 0.050	**11.0**	**42.0**	**200**	**200**	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.077**	**0.14**	< 0.050	**11.0**	**20.0**	**96.0**	**96.0**	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	**0.084**	**0.15**	< 0.050	**8.6**	**19.0**	**120**	**120**	< 1.0	< 1.0	< 0.040	-
	MW16-05	2006 01 (Spring)	< 0.0050	< 0.0050	**1.4**	< 0.050	< 0.10	**620**	**90.0**	**540**	**540**	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.034**	**0.32**	< 0.10	**510**	**110**	**310**	**310**	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.31**	**0.030 J**	< 0.050	**380**	**83.0**	**300**	**300**	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	**0.011**	**0.19**	< 0.050	**230**	**58.0**	**340**	**320**	**12.0**	< 1.0	< 0.040	-
	MW16-06	2006 01 (Spring)	< 0.0050	< 0.0050	**0.015**	**0.82**	< 0.050	**7.8**	**23.0**	**160**	**160**	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.21**	**0.29**	< 0.050	**14.0**	**57.0**	**250**	**250**	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.12**	**0.14**	< 0.050	**16.0**	**76.0**	**320**	**320**	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	**0.14**	**0.56**	< 0.050	**21.0**	**64.0**	**260**	**260**	< 1.0	< 1.0	< 0.040	-
	MWC2-1	2005 02 (Summer)	< 0.0050	< 0.0050	**0.027**	**0.030 J**	< 0.050	**18.0**	**40.0**	**230**	**220**	**4.0**	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0080**	**1.1**	< 0.050	**8.0**	**51.0**	**120**	**120**	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	**0.015**	**0.41**	< 0.050	**15.0**	**74.0**	**220**	**220**	< 1.0	< 1.0	**0.14**	-
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.013**	**0.25**	< 0.10	**11.8**	**19.3**	**167**	**167**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.034**	**0.12 J**	< 0.10 UJ	**37.4**	**13.2**	**248**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	**0.33**	< 0.050	**11.0**	**86.0**	**120**	**120**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	**0.038**	< 0.050	< 0.050	**150**	**12.0**	**330**	**330**	< 1.0	< 1.0	< 0.040	-
	MWC2-2	2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	**2.5**	< 0.050	**35.0**	**650**	**380**	**380**	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.012**	**0.33**	< 0.050	**36.0**	**470**	**210**	**210**	< 1.0	< 1.0	**0.97**	-
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**1.5**	**0.080**	**35.0**	**520**	**230**	**230**	< 1.0	< 1.0	< 0.040	-
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.0029 J**	< 0.10	< 0.10	**30.7**	**705**	**183**	**183**	< 5.0	-	< 1.0	-
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0022 J**	**1.8**	< 1.0	**75.0**	**519**	**234**	-	-	-	< 1.0	-
		2002 04 (Winter)	< 0.010	< 0.010	**0.014**	**0.12**	< 0.050	**86.0**	**350**	**270**	**270**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.54**	< 0.050	**68.0**	**230**	**220**	**220**	< 1.0	< 1.0	< 0.040	-
	MWC2-3	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.13**	< 0.050	**4.1**	**17.0**	**66.0**	**66.0**	< 1.0	< 1.0	< 0.040	-
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.0080**	**0.070**	< 0.050	**6.0**	**25.0**	**96.0**	**96.0**	< 1.0	< 1.0	< 0.040	-
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.0070**	**2.9**	**0.030 J**	**11.0**	**52.0**	**110**	**110**	< 1.0	< 1.0	< 0.040	-
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.10**	< 0.050	**6.0**	**26.0**	**64.0**	**64.0**	< 1.0	< 1.0	< 0.040	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 12-9
Groundwater Sample Analytical Results at IR Site 16: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Dissolved Gases			Anions				Alkalinity				Sulfide	TDS
				Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide	Total Dissolved Solids
			Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
			BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	MWC2-3	2003 04 (Winter)		< 0.0030	< 0.0030	**0.0036**	**3.6**	< 0.20	**10.9**	**57.5**	**92.2**	**92.2**	< 5.0	-	< 1.0	-
		2003 02 (Summer)		< 0.0030	< 0.0030	**0.0036**	**0.17**	< 0.10	**11.6**	**51.2**	**72.1**	-	-	-	< 1.0	-
		2002 04 (Winter)		< 0.010	< 0.010	< 0.010	**4.0 J**	**0.40 J**	**9.2**	**59.0**	**110**	**110**	< 1.0	< 1.0	< 0.040	-
		2002 02 (Summer)		< 0.010	< 0.010	< 0.010	**0.12**	< 0.050	**6.6**	**44.0**	**62.0**	**62.0**	< 1.0	< 1.0	< 0.040	-

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 12-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 16

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 16 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	7	1.1 J	MW16-06	14 Sep 2005	2.4 J	MWC2-2	2004 01 (Spring)
Benzene (UG/L)	1	7	0.10 J	MW16-05	02 May 2006	0.20 J	MWC2-2	2004 02 (Summer)
Tetrachloroethene (PCE) (UG/L)	1	7	17.0	608MJ-MW2	14 Sep 2005	59.0	608MJ-MW2	2002 04 (Winter)
Trichloroethene (UG/L)	6	7	3.8	608MJ-MW2	14 Sep 2005	34.0	608MJ-MW2	2002 04 (Winter)
cis-1,2-Dichloroethene (UG/L)	6	7	11.0	608MJ-MW2	14 Sep 2005	67.0	608MJ-MW2	2004 02 (Summer)
TPH-Gasoline (UG/L)	1	4	22.0 J	608MJ-MW2	01 May 2006	4600	MWC2-2	2003 04 (Winter)
trans-1,2-Dichloroethene (UG/L)	3	7	0.40 J	MWC2-2	14 Sep 2005	0.90	MWC2-2	2005 01 (Spring)
1,1-Dichloroethane (UG/L)	1	7	0.40 J	MW16-06	14 Sep 2005	0.50	MW16-06	2004 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	1	7	2.1	F16SS-MW06	14 Sep 2005	0.90	F16SS-MW06	2004 04 (Winter)
Chlorobenzene (UG/L)	1	7	3.9	MWC2-2	14 Sep 2005	170	MWC2-2	2002 04 (Winter)
1,2-Dichlorobenzene (UG/L)	2	7	27.0	MWC2-2	14 Sep 2005	4500	MWC2-2	2003 04 (Winter)
Vinyl Chloride (UG/L)	1	7	1.1	608MJ-MW2	14 Sep 2005	4.3	608MJ-MW2	2002 02 (Summer)
1,3-Dichlorobenzene (UG/L)	1	7	1.2	MWC2-2	14 Sep 2005	130	MWC2-2	2003 04 (Winter)
Chloroform (UG/L)	2	7	4.4	608MJ-MW2	14 Sep 2005	2.2	608MJ-MW2	2002 04 (Winter)
1,4-Dichlorobenzene (UG/L)	1	7	6.8	MWC2-2	14 Sep 2005	520	MWC2-2	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 12-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 16

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 16 (First Water-Bearing Zone)								
Semivolatile Organic Compounds								
1,4 Dioxane (UG/L)	2	7	0.52 J	608MJ-MW2	01 May 2006	4.1 J	MWC2-1	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 12-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 16

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 16 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	6	6	1.8	MW16-06	14 Sep 2005	3.4	MW16-06	2004 02 (Summer)
Arsenic (UG/L)	6	6	28.0	MWC2-1	14 Sep 2005	37.0	MWC2-1	2004 02 (Summer)
Barium (UG/L)	5	6	120	MWC2-2	14 Sep 2005	200	608MJ-MW2	2002 04 (Winter)
Beryllium (UG/L)	1	6	0.24 J	MW16-05	02 May 2006	0.085 J	608MJ-MW2	2002 02 (Summer)
Cadmium (UG/L)	2	6	0.42 J	MW16-05	02 May 2006	45.0	608MJ-MW2	2002 04 (Winter)
Chromium (UG/L)	4	6	2.3 J	MW16-06	02 May 2006	2.1 J	MWC2-2	2002 02 (Summer)
Cobalt (UG/L)	5	6	1.2	MWC2-2	14 Sep 2005	290	608MJ-MW2	2002 04 (Winter)
Copper (UG/L)	5	6	17.0	MWC2-1	14 Sep 2005	210	608MJ-MW2	2002 04 (Winter)
Manganese (UG/L)	6	6	71.0	MW16-05	15 Sep 2005	3900	608MJ-MW2	2002 04 (Winter)
Molybdenum (UG/L)	1	6	8.1 J	MW16-06	14 Sep 2005	9.7	MW16-06	2004 02 (Summer)
Nickel (UG/L)	5	6	6.3 J	608MJ-MW2	01 May 2006	550	608MJ-MW2	2002 04 (Winter)
Selenium (UG/L)	2	6	14.0	MWC2-2	14 Sep 2005	13.0	MWC2-2	2004 02 (Summer)
Thallium (UG/L)	4	6	2.7 J	MWC2-2	14 Sep 2005	0.29 J	608MJ-MW2	2004 02 (Summer)
Vanadium (UG/L)	6	6	28.0	MWC2-1	14 Sep 2005	100	MWC2-1	2004 02 (Summer)
Zinc (UG/L)	5	6	22.0	MWC2-1	14 Sep 2005	360 J	608MJ-MW2	2002 04 (Winter)
Iron (UG/L)	6	6	48.0 J	608MJ-MW2	14 Sep 2005	5500	608MJ-MW2	2002 04 (Winter)
Calcium (MG/L)	6	6	210	MWC2-2	14 Sep 2005	240 J	MWC2-2	2003 04 (Winter)
Magnesium (MG/L)	6	6	83.0	MWC2-2	14 Sep 2005	99.6 J	MWC2-2	2003 04 (Winter)
Potassium (MG/L)	5	6	42.0	MWC2-2	14 Sep 2005	41.0	MWC2-2	2004 02 (Summer)
Sodium (MG/L)	6	6	530	MW16-05	15 Sep 2005	410	MW16-05	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 12-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 16

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 16 (First Water-Bearing Zone)								
Organochlorine Pesticides								
Aldrin (UG/L)	1	5	0.010 J	F16SS-MW06	02 May 2006	--	NA	NA
delta-BHC (UG/L)	2	5	0.010 J	F16SS-MW06	02 May 2006	0.0060 J	MW16-06	2004 02 (Summer)
alpha-Chlordane (UG/L)	2	5	0.020 J	608MJ-MW2	14 Sep 2005	0.042 J	608MJ-MW2	2003 03 (Fall)
gamma-Chlordane (UG/L)	2	5	0.020 J	F16SS-MW06	02 May 2006	0.020 J	608MJ-MW2	2004 02 (Summer)
4,4'-DDD (UG/L)	1	5	0.040 J	MW16-06	02 May 2006	--	NA	NA
4,4'-DDT (UG/L)	1	5	0.020 J	MW16-06	02 May 2006	--	NA	NA
Endosulfan I (UG/L)	1	5	0.030 J	F16SS-MW06	02 May 2006	--	NA	NA
Heptachlor (UG/L)	1	5	0.0090 J	MW16-06	02 May 2006	--	NA	NA
Heptachlor epoxide (UG/L)	2	5	0.050	F16SS-MW06	02 May 2006	0.041 J	608MJ-MW2	2003 03 (Fall)
Methoxychlor (UG/L)	1	5	0.10 J	MW16-06	02 May 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

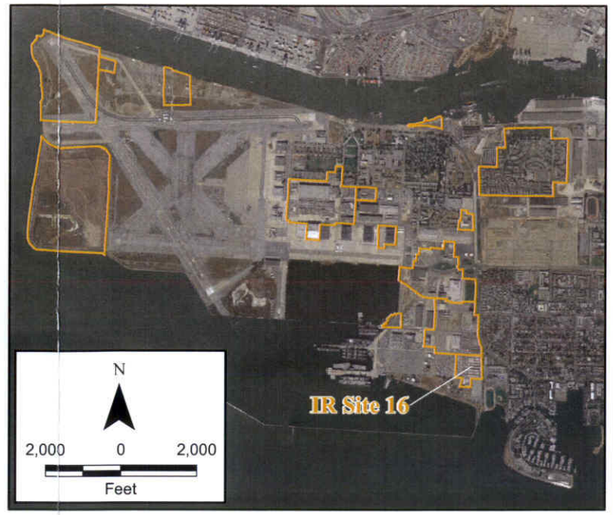
Table 12-10

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 16

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 16 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	7	7	540	MW16-05	02 May 2006	340	MW16-05	2004 02 (Summer)
Alkalinity, bicarbonate (MG/L)	7	7	540	MW16-05	02 May 2006	330	MWC2-1	2002 02 (Summer)
Alkalinity, carbonate (MG/L)	1	7	4.0	MWC2-1	14 Sep 2005	12.0	MW16-05	2004 02 (Summer)
Methane (MG/L)	6	7	1.4	MW16-05	02 May 2006	0.31	MW16-05	2004 04 (Winter)
Total Dissolved Solids (MG/L)	1	1	240	F16SS-MW06	02 May 2006	--	NA	NA
Nitrate (MG/L)	7	7	2.5	MWC2-2	14 Sep 2005	4.0 J	MWC2-3	2002 04 (Winter)
Nitrite (MG/L)	1	7	0.050	608MJ-MW2	01 May 2006	0.40 J	MWC2-3	2002 04 (Winter)
Chloride (MG/L)	7	7	620	MW16-05	02 May 2006	380	MW16-05	2004 04 (Winter)
Sulfate (as SO4) (MG/L)	7	7	650	MWC2-2	14 Sep 2005	705	MWC2-2	2003 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- IR Site Boundary
- Facility

N

200 0 200

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004
National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\IR Site 16\IR Site 16 Location Map_NAD83.mxd

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FIGURE 12-1
IR SITE 16
SITE AND WELL LOCATION MAP

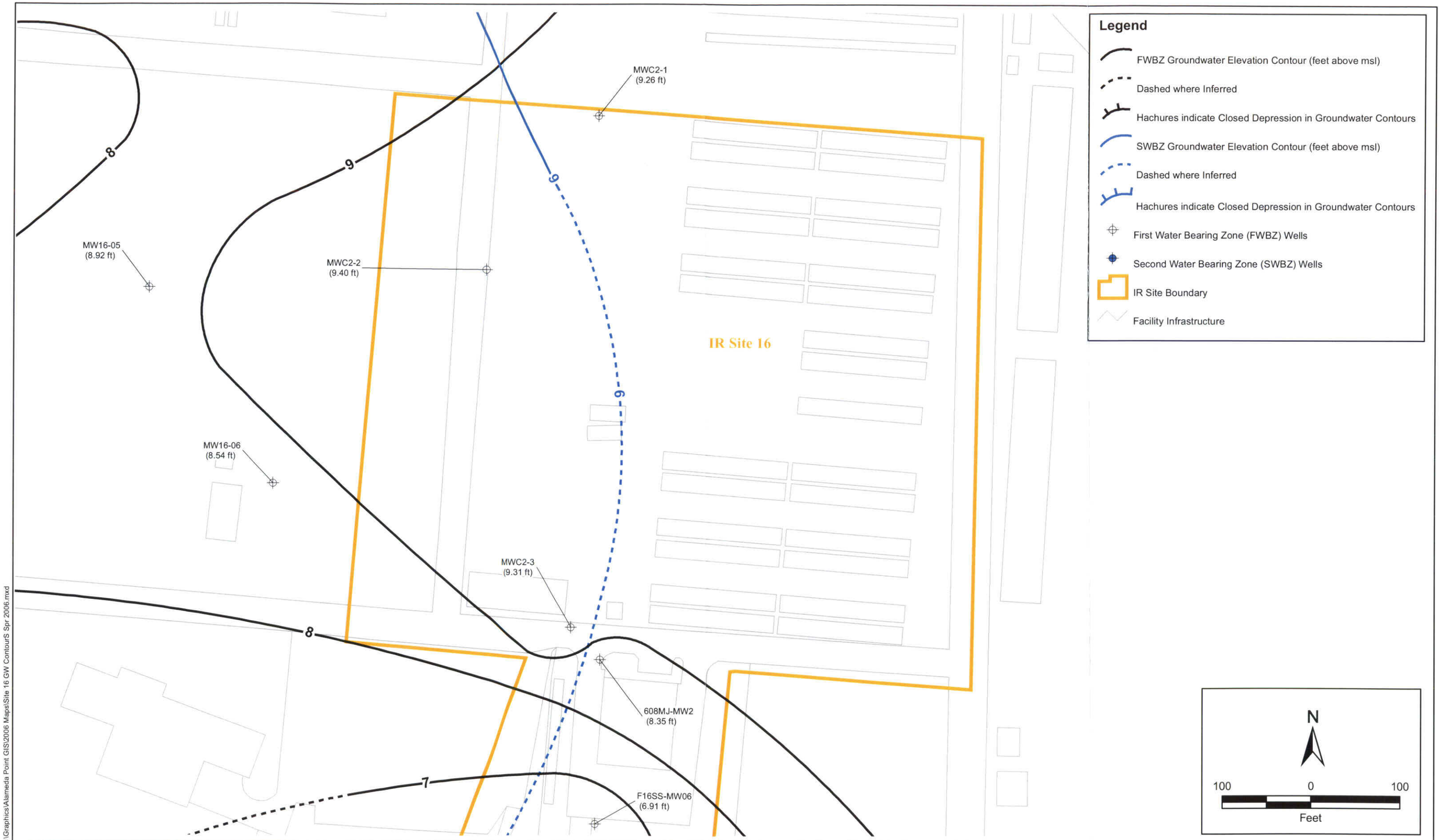

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FIGURE 12-2
IR SITE 16
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

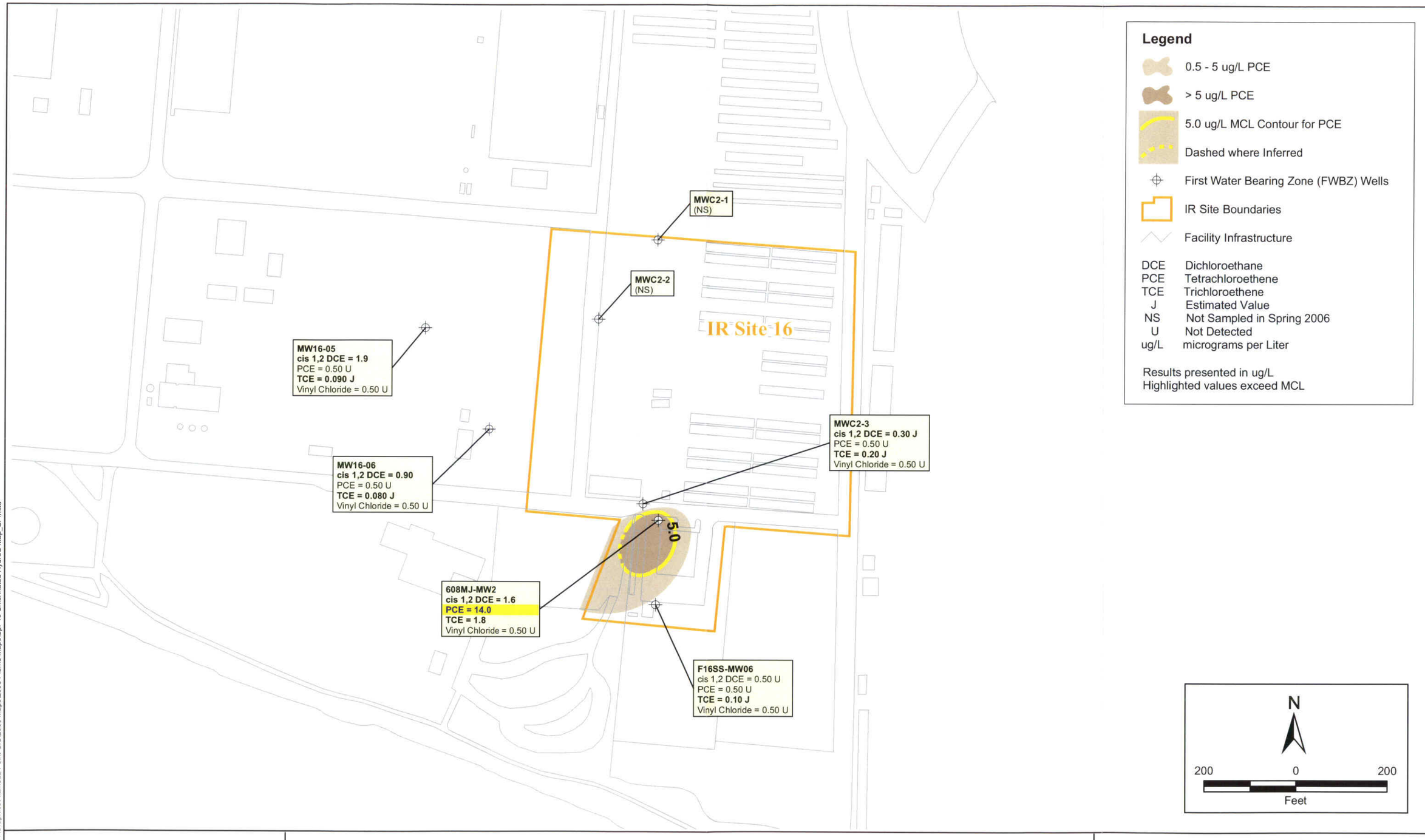

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FIGURE 12-3
IR SITE 16
GROUNDWATER DISTRIBUTION OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006

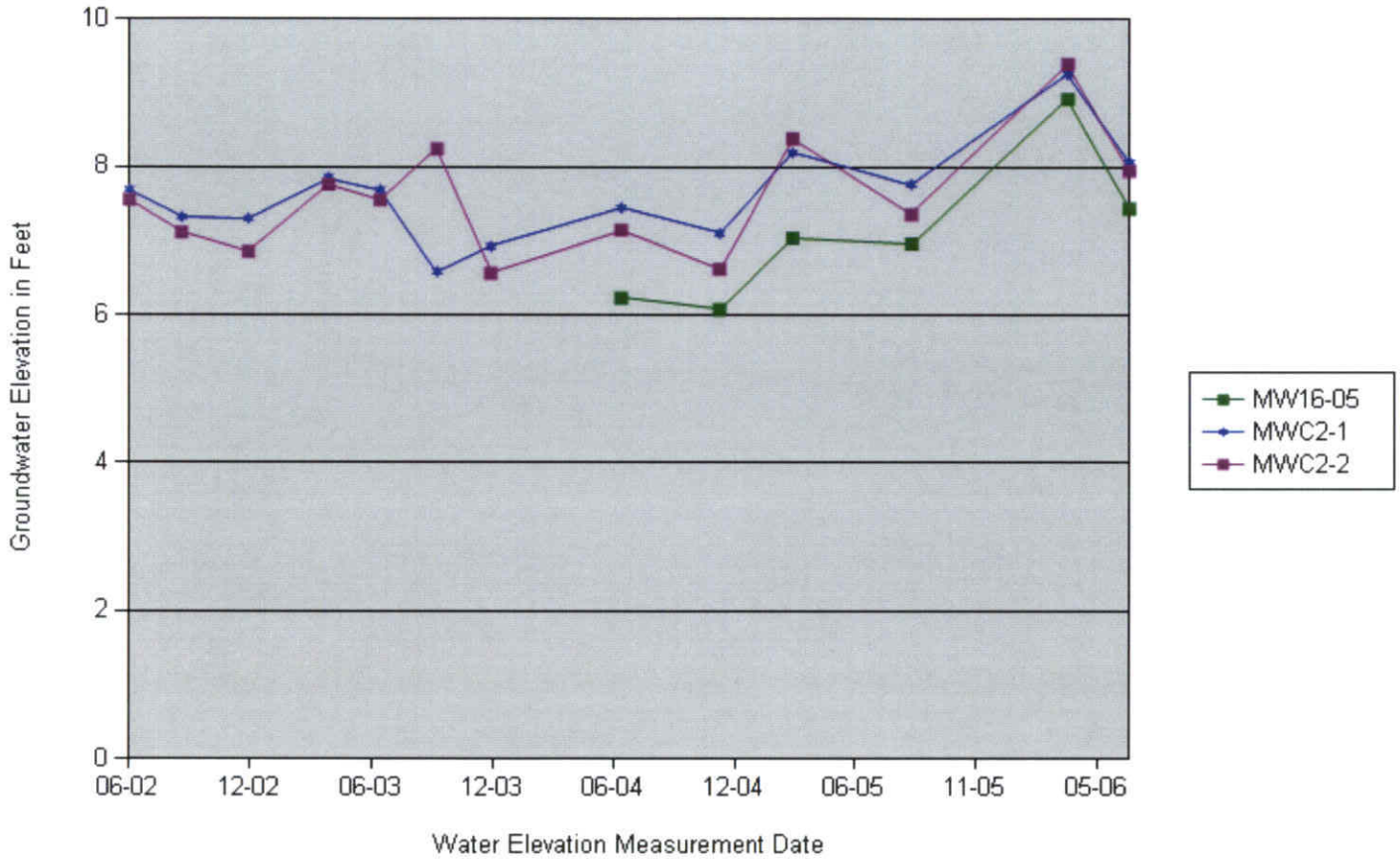

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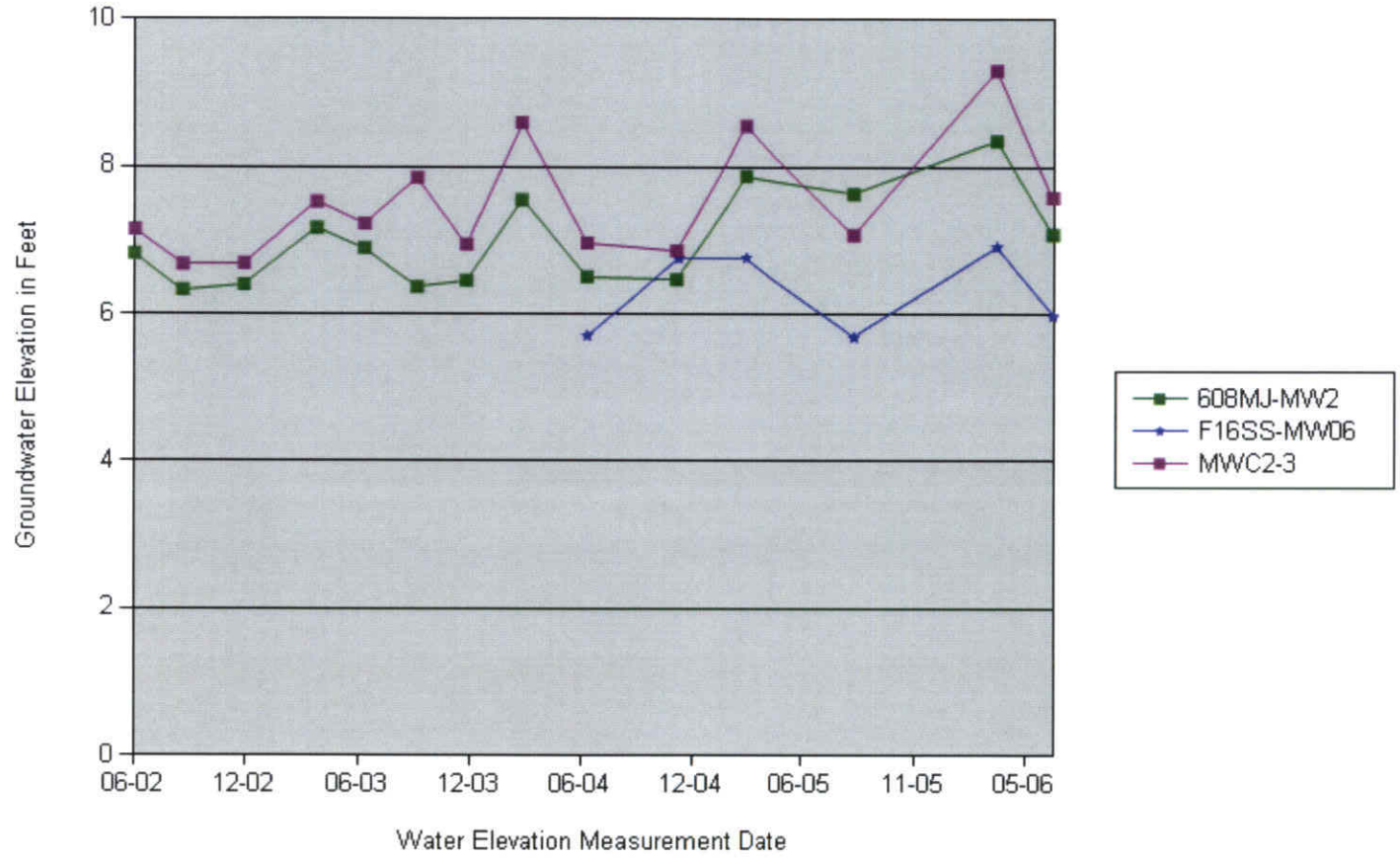
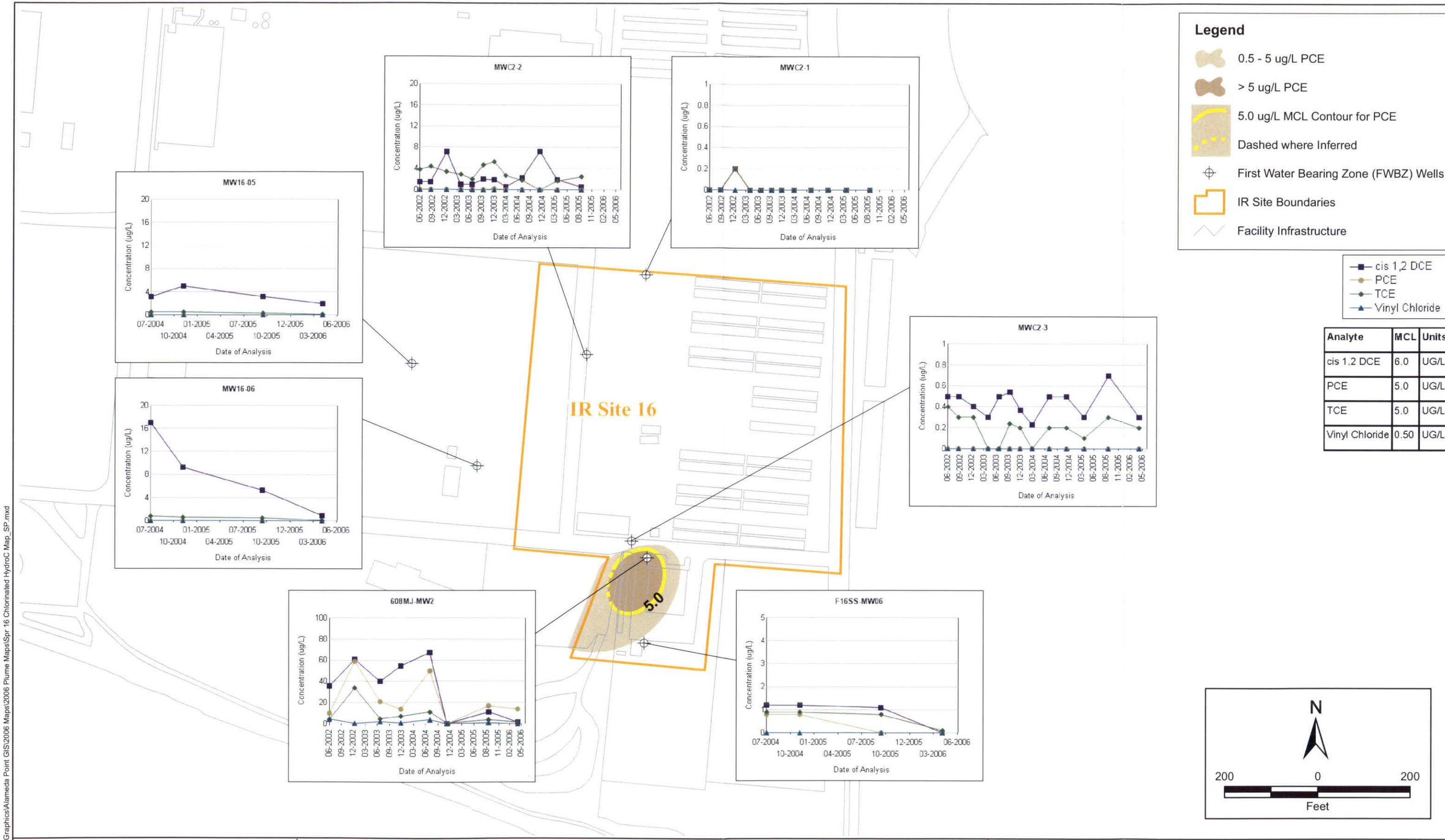
FIGURE 12-4a
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 16:
FWBZ WELLS LOCATED IN NORTHWEST PORTION
SUMMER 2002 THROUGH SPRING 2006



ITSI Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 12-4b** TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 16: FWBZ WELLS LOCATED IN SOUTHERN PORTION SUMMER 2002 THROUGH SPRING 2006



Analyte	MCL	Units
cis 1,2 DCE	6.0	UG/L
PCE	5.0	UG/L
TCE	5.0	UG/L
Vinyl Chloride	0.50	UG/L

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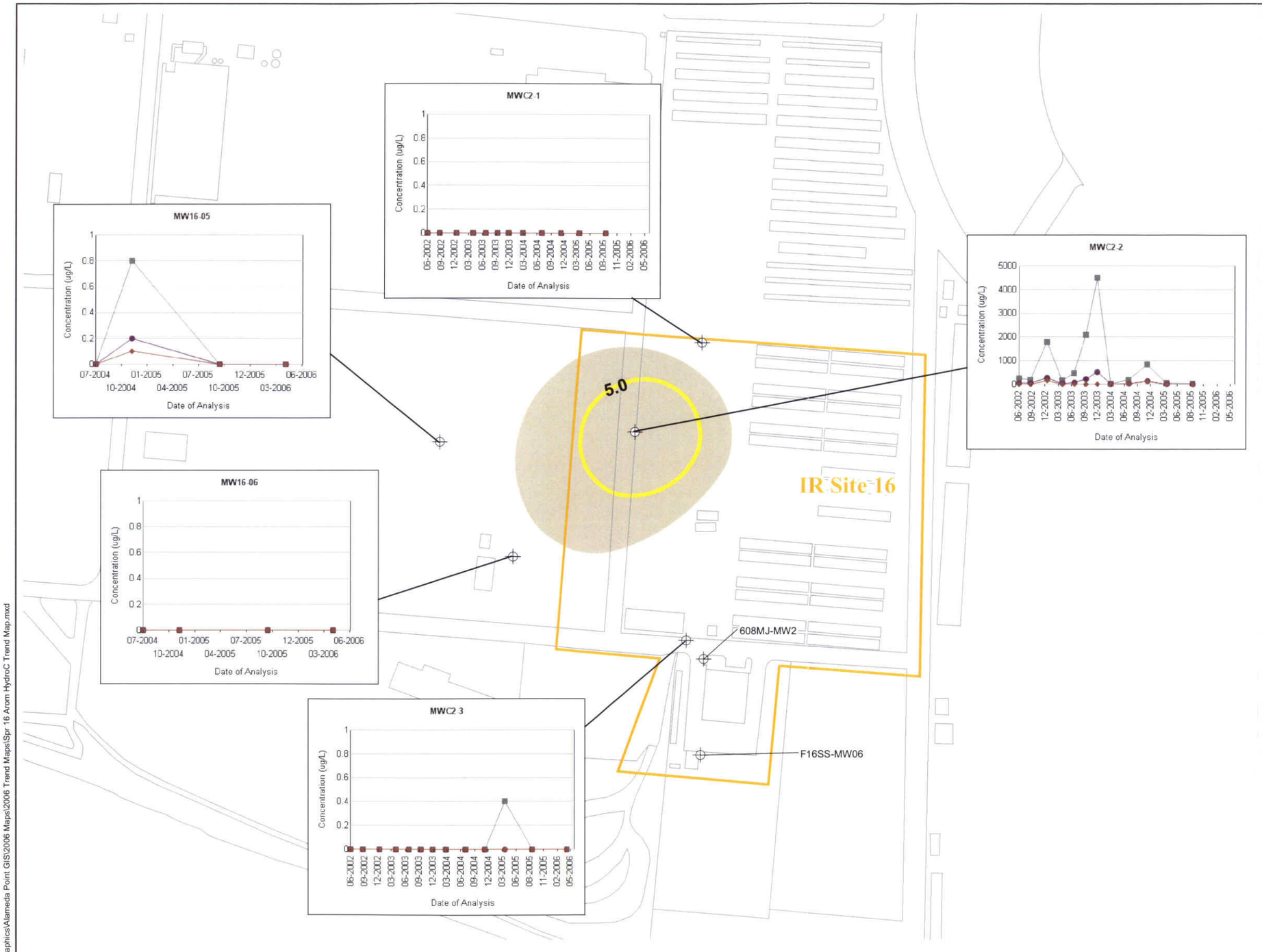
FIGURE 12-5
IR SITE 16
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME OF SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006



Legend

- > 1 ug/L 1,4-DCBZ
- 5.0 ug/L MCL Contour for 1,4-DCBZ
- First Water Bearing Zone (FWBZ) Wells
- IR Site Boundaries
- Facility Infrastructure

1,2 DCBZ
1,4 DCBZ
Chlorobenzene

Analyte	MCL	Units
1,2 DCBZ	600	UG/L
1,4 DCBZ	5.0	UG/L
Chlorobenzene	70.0	UG/L

N

200 0 200

Feet

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Trend Maps\Spr 16 Arom HydroC Trend Map.mxd

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FIGURE 12-6
IR SITE 16
GROUNDWATER CONCENTRATIONS OF AROMATIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

13.0 INSTALLATION RESTORATION SITE 25 GROUP

IR Site 25 Group, located in the northeastern corner of Alameda Point (Figure 1-2), includes IR Site 25 (Estuary Park and Coast Guard Housing Area), IR Site 30 (Miller Elementary School), and IR Site 31 (Marina Village Housing). The general area of IR Site 25 Group was historically undeveloped marshlands and tidal flats along the San Francisco Bay fringe and was later filled with sand and sediment dredged from nearby tidal flats, the Oakland Inner Harbor, and San Francisco Bay. The site was developed into a housing area for the Navy and was used for barracks for enlisted personnel from about 1947 to 1970. The area has recently been developed into military-related family housing units. A public elementary school (Miller School) and a day care center were also built in recent years to support the housing area. The property east and southeast of the housing area is the former FISCO Annex. Historical industrial operations that may have released chemicals to the environment include Scrapyard operations at the adjacent FISCO Annex and historical manufacturing/refining operations. The Scrapyard was used to store excess government equipment and scrap materials prior to closure of the Annex.

Potential sources of contamination include the following:

- Historical disposal of petroleum-related products in the marshlands
- Former manufactured gas plants north of the Oakland Inner Harbor
- Annex Scrapyard IR Site

Background information is available in the Final RI Report for OU-5, (Neptune et. al., 2002). The characterization of IR Site 25 Group concluded that PAHs and petroleum-related contaminants (benzene) are the primary contaminants of concern in groundwater. PAH contamination at IR Site 25 Group is attributed to the use of PAH-containing dredge material as fill. This led to contamination in the upper 10 feet of fill and entrapment of petroleum-related products at the wetland/fill interface (marsh crust). An oil refinery (Pacific Coast Oil Works) operated from about 1864 to 1899 at the western tip of pre-fill Alameda, and a manufactured gas plant (most active from 1903 to 1930) was present on the waterfront in Oakland. These industrial operations are suspected of disposing waste materials into the Oakland Shipping Channel, contributing a significant chemical load to the channel sediments. Subsequent fill

events are believed to have trapped this contamination in place, resulting in a zone of elevated PAHs and petroleum hydrocarbons present as the marsh crust.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 25 Group included sampling and analysis of 15 groundwater monitoring wells (14 FWBZ wells and one SWBZ wells) and ten soil gas monitoring points. One additional FWBZ groundwater monitoring well is used for quarterly groundwater-level measurement only. All groundwater and soil gas monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 13-1, along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 13-1.

13.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 16 groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site25 Group. The results are presented along with previously collected water-level data in Table 13-2.

13.2 ANALYTICAL PARAMETERS

Groundwater samples collected from IR Site 25 Group wells during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- VOCs by EPA Method 8260B
- PAHs by EPA Method 8310
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 13-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements. In addition, soil gas monitoring points were analyzed in Summer 2005 and Spring 2006 for VOCs (EPA Method TO-15) and Fixed Gases (ASTM Method D1946).

13.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 through Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 13-3 through 13-8 as follows:

- Table 13-3, "Groundwater Sample Analytical Results at IR Site 25 Group: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 13-4, "Groundwater Sample Analytical Results at IR Site 25 Group: Polycyclic Aromatic Hydrocarbons, Summer 2002 through Spring 2006"
- Table 13-5, "Groundwater Sample Analytical Results at IR Site 25 Group: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 13-6, "Groundwater Sampling Field Parameters at IR Site 25 Group, Summer 2002 through Spring 2006"
- Table 13-7, "Groundwater Sample Analytical Results at IR Site 25 Group: Natural Attenuation Parameters, Summer 2002 through Spring 2006"
- Table 13-8, "Soil Gas Analytical Results at IR Site 25 Group: Volatile Organic Compounds and Fixed Gases, Summer 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

13.4 DISCUSSION OF RESULTS

Concentrations of various aromatic hydrocarbons have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the FWBZ. **Benzene** was the only VOC detected at concentrations exceeding its respective MCLs in FWBZ wells during the current sampling year. Benzene was detected above the MCL of 1 µg/L in ten wells, at a maximum concentration of 640 µg/L in groundwater collected from well P181-MW47 during the Spring 2006 sampling event (Table 13-3).

Benzo(a)pyrene was detected above its MCL of 0.20 µg/LJ in three wells; the maximum groundwater concentration of 1.9 J µg/L was collected from well M25-01 during the Spring 2006 sampling event (Table 13-4).

Arsenic, barium, beryllium, and **thallium** were the only dissolved metals detected in the FWBZ at concentrations exceeding an MCL during the current sampling year; arsenic and beryllium exceeded the MCL in one FWBZ well, S-16R, while thallium exceeded the MCL in two FWBZ wells (Table 13-5). Barium exceeded the MCL in two FWBZ wells, P181-MW45 and PW-12. **Arsenic** and **barium** were detected in the single SWBZ well at above their respective MCLs. Arsenic and barium were detected above their MCLs of 10 µg/L and 1,000 µg/L in well PW-12 at a maximum estimated concentration of 150 J µg/L, and 1,600 µg/L, respectfully, in groundwater collected during Summer 2005. Beryllium was detected above its MCL of 4.0 µg/L in the FWBZ well, at a maximum estimated concentration of 22 J µg/L in groundwater collected from well S-16R in Spring 2006. Finally, thallium was detected above its MCL of 2.0 µg/L in wells M25-01 and M25-05 during the Spring 2006 sampling event.

Field parameters measured during sampling are presented in Table 13-6.

A summary of detected analytical results for natural attenuation parameters is presented in Table 13-7. Several wells at IR Site 25 Group are monitored for various natural attenuation parameters, such as alkalinity, dissolved gases, anions, nitrate and sulfate. Methane as dissolved gases was detected at a maximum concentration of 21,000 µg/L in well D-02R in Spring 2006.

Soil gas results indicate relatively low concentrations and predominantly BTEX are present in soil gas in the vadose zone at IR Site 25 Group (Table 13-8). One soil gas sample was

significantly higher than the others, with OU5-SG-18D containing 9.1 ppbv benzene and 1,200J ppbv of m,p-xylenes.

13.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 13-2. The general groundwater flow direction in the FWBZ is dominated by an arcuate mound extending approximately from well PW-12 to M25-02 to M25-01, with a pronounced low area centered on well M25-06 located in the southwestern part of the site. Groundwater flow directions vary greatly across the site, and are outward in all directions from the above-noted groundwater mound in the central part of the site. Gradients also vary significantly across the site, averaging about 0.0025 feet per foot.

13.4.2 Groundwater and Soil Gas Contaminant Distribution

The groundwater contaminant distribution of benzene is illustrated on Figure 13-3. Benzene concentrations above 100 µg/L in groundwater occur in two plumes located at the southeastern and southwestern corners of the site. The more diluted portion of each of the two plumes, at concentrations ranging between 10 to 100 µg/L, appears to overlap just south of the center of IR Site 25 Group.

Four metals exceeded their respective MCLs in the current year's sampling events at one or more IR Site 25 Group wells. However, for two of these metals (beryllium and thallium), these were the first MCL exceedances; thus there does not appear to be ongoing metals contamination of groundwater by either of these metals. The exceptions to this pattern are for arsenic and barium, which have been consistently reported above their respective MCLs in three and four wells, respectively. Arsenic exceedances are fairly high, but are limited to the eastern part of the site, and at locations where chemical conditions are reducing and iron is especially high (7,000 to 24,000 µg/L); the highest results have been in two SWBZ wells (D-02 and D-02R). Barium MCL exceedances are in wells in the central and eastern part of the site (P181-MW45, PW-12, D-02 and D-02R), with the highest values in deep well D-02.

The soil gas contaminant distribution for BTEX compounds is presented on Figure 13-4. Higher BTEX concentrations were detected in samples collected from soil gas probes located in areas near the eastern portion of the site, particularly at OU5-SG-18D.

13.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 13-9, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 13-9 also lists the historical maximum concentration (Summer 2002 through Spring 2005) for each analyte. In general, concentrations of analytes detected during the Summer 2005 through Spring 2006 sampling year were similar to those found in previous sampling years.

Overall, the current analytical results are consistent and within the range of results reported in the historical data for each monitoring well sampled at IR Site 25 Group.

13.4.4 Trends in Groundwater Elevation Data

Figure 13-5 depicts groundwater elevations thru time for selected wells in IR Site 25 Group. Seasonal trends are apparent, with high groundwater elevations occurring in winter and spring, and low elevations in summer and fall. No discernible rising or falling trends are apparent from one year to the next.

13.4.5 Trends in Groundwater Contaminant Concentrations

Trends in selected groundwater contaminant concentrations (benzene and naphthalene) selected wells over time are displayed on Figure 13-6. In general, there were no significant changes in contaminant concentrations for benzene and benzo(a)pyrene in any of the site wells over the past four years; naphthalene concentrations have decreased at several wells.

13.5 CONCLUSIONS AND RECOMMENDATIONS

Benzene exceeding MCL occurs in two distinct portions of the site: the southeast and the southwest. In the southeast portion, benzene appears to have affected only the FWBZ; the only SWBZ site well, D-02, has not had a history of benzene detections. The overall trend of benzene detections and concentrations in the wells monitored and sampled for a period of approximately three years remains generally unchanged.

Benzo(a)pyrene, another site contaminant of concern exceeding the MCL, occurs mainly in wells located at the western portion of the site. However, replacement well S-35R-2, located east of the site indicated the presence of benzo(a)pyrene above MCL in the Spring 2006 sample.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 13-1
Groundwater Monitoring Summary, IR Site 25 Group - Summer 2005 and Spring 2006

				Organic Compounds		Inorganic Compounds	Natural Attenuation Parameters					Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	VOCs (TO15)	Fixed Gases (ASTM D1946)
Groundwater Monitoring Program Wells													
First	M25-01	Fill-BSU	10 - 20	X	X	X	X	X	X	X	X		
	M25-02	Fill-BSU	10 - 20	X	X	X	X	X	X	X	X		
	M25-04	Fill-BSU	10 - 20	X	X	X	X	X	X	X	X		
	M25-05	Fill-BSU	9 - 19	X	X	X	X	X	X	X	X		
	M25-06	Fill-BSU	10 - 19.5	X	X								
	M25-07	Fill-BSU	10 - 19.5	X	X								
	M25-08	Fill-BSU	10 - 19.5	X	X								
	M25-09	Fill-BSU	10 - 19.5	X	X	X	X	X	X	X	X		
	P181-MW45	Fill	16 - 18.5	X	X	X	X	X	X	X	X		
	P181-MW46	Fill	9 - 19	X	X	X	X	X	X	X	X		
	P181-MW47	Fill	13.5 - 18.5	X	X	X	X	X	X	X	X		
	PW-12	Fill	12 - 17	X	X	X	X	X	X	X	X		
	S-16R	Fill	9 - 19	X	X	X	X	X	X	X	X		
	S-35R-2	Fill	10 - 19.5	X	X	X	X	X	X	X	X		
Second	D-02R	BSU	95 - 105	X	X	X	X	X	X	X	X		
Vadose	OU5-SG-16-S	Fill	3 - 3.5									X	X
	OU5-SG-16-D	Fill	4.5 - 6									X	X
	OU5-SG-17-S	Fill	1 - 2.5									X	X
	OU5-SG-17-D	Fill	3.5 - 5									X	X
	OU5-SG-18-S	Fill	2 - 4									X	X
	OU5-SG-18-D	Fill	5 - 7									X	X
	OU5-SG-19-S	Fill	1.5 - 3.5									X	X

Table 13-1
Groundwater Monitoring Summary, IR Site 25 Group - Summer 2005 and Spring 2006

				Organic Compounds		Inorganic Compounds	Natural Attenuation Parameters					Soil Gas	
WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	VOCs (EPA 8260B)	Polycyclic Aromatic Hydrocarbons (EPA 8310)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)	VOCs (TO15)	Fixed Gases (ASTM D1946)
Vadose	OU5-SG-19-D	Fill	4.5 - 6.5									X	X
	OU5-SG-20-S	Fill	2 - 4									X	X
	OU5-SG-20-D	Fill	6 - 8									X	X
Non-Program Wells, Water Level Only													
First	PW-10A	Fill	12 - 17	-	-	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175
ASTM - American Society for Testing and Materials

Table 13-2
Summary of Groundwater Level Measurements at IR Site 25
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M25-01	11.9	11.80 *	04/12/06	4.85	6.95
		11.9	11.80 *	08/24/05	7.58	4.22
		11.9	11.80 *	03/01/05	7.35	4.45
		11.9	11.80 *	11/09/04	8.15	3.65
		11.9	11.80 *	06/15/04	8.79	3.01
		11.9	11.80 *	03/01/04	8.31	3.49
		11.9	11.80 *	12/03/03	8.30	3.50
		11.9	11.80 *	09/16/03	8.71	3.09
		11.9	11.80 *	06/24/03	6.70	5.10
		11.9	11.80 *	04/08/03	6.23	5.57
		11.9	11.80 *	12/12/02	6.74	5.06
		11.9	11.80 *	09/10/02	7.85	3.95
First	M25-02	10.2	9.71 *	04/12/06	2.55	7.16
		10.2	9.71 *	08/24/05	6.10	3.61
		10.2	9.71 *	03/01/05	3.12	6.59
		10.2	9.71 *	11/09/04	5.22	4.49
		10.2	9.71 *	06/15/04	5.19	4.52
		10.2	9.71 *	03/01/04	3.14	6.57
		10.2	9.71 *	12/03/03	5.36	4.35
		10.2	9.71 *	09/16/03	4.92	4.79
		10.2	9.71 *	06/24/03	5.31	4.40
		10.2	9.71 *	04/08/03	5.68	4.03
		10.2	9.71 *	12/12/02	5.80	3.91
		10.2	9.71 *	09/10/02	5.40	4.31
First	M25-03 ‡	11.1	10.75 *	08/24/05	NM	NC
		11.1	10.75 *	03/01/05	NM	NC
		11.1	10.75 *	11/09/04	NM	NC
		11.1	10.75 *	06/15/04	2.95	7.80
		11.1	10.75 *	03/02/04	1.59	9.16
		11.1	10.75 *	12/03/03	3.28	7.47
		11.1	10.75 *	09/16/03	5.68	5.07
		11.1	10.75 *	06/24/03	6.74	4.01
		11.1	10.75 *	04/08/03	7.89	2.86
		11.1	10.75 *	12/12/02	5.19	5.56
		11.1	10.75 *	09/10/02	5.38	5.37
First	M25-04	13.8	13.35 *	04/12/06	2.07	11.28
		13.8	13.35 *	08/24/05	4.66	8.69
		13.8	13.35 *	03/01/05	3.13	10.22
		13.8	13.35 *	11/09/04	5.44	7.91
		13.8	13.35 *	06/15/04	5.76	7.59
		13.8	13.35 *	03/01/04	3.10	10.25
		13.8	13.35 *	12/03/03	5.19	8.16
		13.8	13.35 *	09/16/03	5.65	7.70
		13.8	13.35 *	06/24/03	5.81	7.54
		13.8	13.35 *	04/08/03	4.88	8.47
		13.8	13.35 *	12/12/02	5.22	8.13
		13.8	13.35 *	09/10/02	5.25	8.10

Table 13-2
Summary of Groundwater Level Measurements at IR Site 25
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	M25-05	15.3	15.07 *	04/12/06	10.40	4.67
		15.3	15.07 *	08/24/05	9.49	5.58
		15.3	15.07 *	03/01/05	10.21	4.86
		15.3	15.07 *	11/09/04	11.31	3.76
		15.3	15.07 *	06/15/04	12.34	2.73
		15.3	15.07 *	03/01/04	8.30	6.77
		15.3	15.07 *	12/03/03	10.63	4.44
		15.3	15.07 *	09/16/03	11.31	3.76
		15.3	15.07 *	06/24/03	10.71	4.36
		15.3	15.07 *	04/08/03	8.88	6.19
		15.3	15.07 *	12/12/02	9.44	5.63
		15.3	15.07 *	09/10/02	9.55	5.52
First	M25-06	10.3	10.25	04/12/06	6.00	4.25
		10.3	10.25	08/24/05	9.19	1.06
		10.25	10.25	03/01/05	9.50	0.75
		10.25	10.25	11/09/04	10.07	0.18
		10.25	10.25	06/15/04	10.05	0.20
First	M25-07	9.73	9.73	04/12/06	4.25	5.48
		9.73	9.73	08/24/05	5.32	4.41
		9.73	9.73	03/01/05	10.59	-0.86
		9.73	9.73	11/09/04	10.98	-1.25
		9.73	9.73	06/15/04	5.39	4.34
First	M25-08	8.15	8.15	04/12/06	2.40	5.75
		8.15	8.15	08/24/05	3.93	4.22
		8.15	8.15	03/01/05	6.85	1.30
		8.15	8.15	11/09/04	3.16	4.99
		8.15	8.15	06/15/04	5.94	2.21
First	M25-09	13.20	13.20	04/12/06	7.23	5.97
		13.20	13.20	08/24/05	8.42	4.78
		13.20	13.20	03/01/05	7.02	6.18
		13.20	13.20	11/09/04	9.32	3.88
		13.20	13.20	06/15/04	6.14	7.06
First	P181-MW45	9.80	9.20 *	04/12/06	2.2	7.00
		9.80	9.20 *	08/24/05	5.11	4.09
		9.8	9.20 *	03/01/05	2.44	6.76
		9.8	9.20 *	11/09/04	4.62	4.58
		9.8	9.20 *	06/15/04	4.56	4.64
		9.8	9.20 *	03/01/04	2.24	6.96
		9.8	9.20 *	12/03/03	3.79	5.41
		9.8	9.20 *	09/16/03	4.81	4.39
		9.8	9.20 *	06/24/03	4.38	4.82
		9.8	9.20 *	04/08/03	4.27	4.93
		9.8	9.20 *	12/11/02	3.98	5.22
		9.8	9.20 *	09/10/02	3.97	5.23
		9.8	9.20 *	06/24/02	4.20	5.00

Table 13-2
Summary of Groundwater Level Measurements at IR Site 25
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	P181-MW46	10.5	10.27 *	04/12/06	2.62	7.65
		10.5	10.27 *	08/24/05	5.65	4.62
		10.5	10.27 *	03/01/05	3.43	6.84
		10.5	10.27 *	11/09/04	5.22	5.05
		10.5	10.27 *	06/15/04	5.64	4.63
		10.5	10.27 *	03/01/04	3.38	6.89
		10.5	10.27 *	12/03/03	5.50	4.77
		10.5	10.27 *	09/16/03	5.48	4.79
		10.5	10.27 *	06/24/03	5.70	4.57
		10.5	10.27 *	04/08/03	6.24	4.03
		10.5	10.27 *	12/11/02	6.45	3.82
		10.5	10.27 *	09/10/02	5.44	4.83
		10.5	10.27 *	06/24/02	5.35	4.92
First	P181-MW47	12.6	12.35 *	04/12/06	5.35	7.00
		12.6	12.35 *	08/24/05	7.31	5.04
		12.6	12.35 *	03/01/05	5.46	6.89
		12.6	12.35 *	11/09/04	7.76	4.59
		12.6	12.35 *	06/15/04	7.94	4.41
		12.6	12.35 *	03/01/04	5.41	6.94
		12.6	12.35 *	12/03/03	8.54	3.81
		12.6	12.35 *	09/16/03	8.40	3.95
		12.6	12.35 *	06/24/03	8.12	4.23
		12.6	12.35 *	04/08/03	7.39	4.96
		12.6	12.35 *	12/11/02	8.85	3.50
		12.6	12.35 *	09/10/02	7.56	4.79
		12.6	12.35 *	06/24/02	7.56	4.79
First	PW-10A ‡	14.4	12.13	04/12/06	NM	NC
		14.4	12.13	03/01/05	NM	NC
		14.4	12.13	11/09/04	8.85	3.28
		14.4	12.13	06/15/04	8.85	3.28
		14.4	12.13	03/01/04	7.14	4.99
		14.4	12.13	12/03/03	8.58	3.55
First	PW-12	13.3	15.40 *	04/12/06	7.35	8.05
		13.3	15.40 *	08/24/05	10.05	5.35
		13.3	15.40 *	03/01/05	8.42	6.98
		13.3	15.40 *	11/09/04	10.75	4.65
		13.3	15.40 *	06/15/04	10.01	5.39
		13.3	15.40 *	03/01/04	7.76	7.64
		13.3	15.40 *	12/03/03	9.85	5.55
		13.3	15.40 *	09/16/03	10.23	5.17
		13.3	15.40 *	06/24/03	9.98	5.42
		13.3	15.40 *	04/08/03	10.56	4.84
		13.3	15.40 *	12/11/02	9.99	5.41
		13.3	15.40 *	09/10/02	9.99	5.41
		13.3	15.40 *	06/24/02	9.90	5.50
First	S-16-R	14.0	14.03	04/12/06	10.00	4.03
		14.0	14.03	08/24/05	8.05	5.98
		14.03	14.03	03/01/05	5.30	8.73
		14.03	14.03	11/09/04	7.85	6.18

Table 13-2
Summary of Groundwater Level Measurements at IR Site 25
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	S16-2	14.3	14.03	11/09/04	NM	NC
		14.3	14.03	06/16/04	8.1	5.93
		14.3	14.03	03/02/04	9.38	4.65
		14.3	14.03	12/03/03	8.19	5.84
First	S-35R-2	11.8	11.80 ***	04/12/06	3.55	8.25
		11.8	11.80 ***	08/24/05	6.12	5.68
		11.81	11.80 ***	03/01/05	4.33	7.47
First	S-35R	11.81	11.80 ***	08/24/05	6.32	5.48
		11.81	11.80 ***	03/01/05	NM	NC
		11.81	11.80 ***	11/09/04	6.06	5.74
		11.81	11.80 ***	06/15/04	6.29	5.51
First	S-35	13.3	13.01 *	11/09/04	NM	NC
		13.3	13.01 *	06/15/04	7.49	5.52
		13.3	13.01 *	03/01/04	4.93	8.08
		13.3	13.01 *	12/03/03	7.84	5.17
		13.3	13.01 *	09/16/03	7.81	5.20
		13.3	13.01 *	06/24/03	7.55	5.46
		13.3	13.01 *	04/08/03	7.35	5.66
		13.3	13.01 *	12/11/02	7.73	5.28
		13.3	13.01 *	09/10/02	7.76	5.25
		13.3	13.01 *	06/25/02	4.60	8.41
Second	D-02R	13.4	13.04	08/24/05	NM	NC
		13.4	13.04	03/01/05	5.30	7.74
Second	D-02	13.4	13.04	04/12/06	NM	NC
		13.4	13.04	08/24/05	NM	NC
		13.4	13.04	03/01/05	NM	NC
		13.4	13.04	11/09/04	6.52	6.52
		13.4	13.04	06/15/04	6.31	6.73
		13.4	13.04	03/01/04	6.31	6.73
		13.4	13.04	12/03/03	6.89	6.15
		13.4	13.04	09/16/03	7.55	5.49
		13.4	13.04	06/24/03	8.19	4.85
		13.4	13.04	04/08/03	8.25	4.79
		13.4	13.04	12/11/02	7.87	5.17
		13.4	13.04	09/10/02	7.53	5.51
		13.4	13.04	07/16/02	7.54	5.50

Notes:

BTOC = below top of casing

BGS = below ground surface

msl = mean sea level

NA = Not available

NC = Groundwater elevation not calculated

NF = Monitoring well not found

NM = Water level not measured

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

*** = Surveyed with GPS

§ = Measured prior to purging well for sampling

† = Well under artesian conditions.

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 13-3

Groundwater Sample Analytical Results at IR Site 25 Group: Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-01	2006 01 (Spring)	270	94.0	130	76.0	52.0	4,600	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0
		2005 02 (Summer)	440	140	170	95.0	72.0	6,300	< 50.0	15.0 J	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
		2005 01 (Spring)	490	150	140	93.0	59.0	4,000	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
		2004 04 (Winter)	420	120	130	75.0	44.0	5,300	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
		2004 02 (Summer)	440	130	140	78.0	42.0	6,000	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	< 31.0	17.0 J	< 31.0	< 31.0	< 31.0	< 31.0 J	< 31.0
		2004 01 (Spring)	650 J	200 J	170 J	130 J	74.0 J	6,100	< 50.0	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0 UJ	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.0	< 10.0	< 5.0
		2003 04 (Winter)	400	150	180	130	81.0	4,900 J	< 120	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 12.0	< 25.0	< 12.0
		2003 03 (Fall)	520	150	160	110	75.0	4,300	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	330 J	120 J	140 J	37.0 J	64.0 J	4,200 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	460	140	130	96.0	49.0	4,600 J	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	13.0	< 13.0 UJ	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
		2002 04 (Winter)	190	84.0	130	87.0	59.0	5,000	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
		2002 03 (Fall)	510	150	120	99.0	64.0	3,200	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
	M25-02	2006 01 (Spring)	0.10 J	0.10 J	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.10 J	0.10 J	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.20 J	0.20 J	< 0.50	< 0.50	< 0.50	0.70 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 0.50	0.26 J	0.28 J	< 1.0	0.23 J	3.8	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 0.50	0.23 J	< 1.0	< 1.0	< 1.0	2.1	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 0.50	< 1.0	< 1.0	< 1.0	0.24 J	4.5	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	0.10 J	0.10 J	0.10 J	0.20 J	0.40 J	0.90 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50 J	< 0.50	< 0.50 J	< 0.50	0.30 J	3.5	< 0.50	0.80	8.6	< 0.50 J	1.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 140	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0	< 36.0
	M25-04	2006 01 (Spring)	< 0.50	< 0.50	0.20 J	0.40 J	0.10 J	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	0.10 J	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	M25-05	2006 01 (Spring)	160	51.0	110	51.0	45.0	600	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2.2 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2005 02 (Summer)	160	60.0	92.0	46.0	37.0	1,100	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6

Innovative Technical Solutions, Inc.

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-3

Groundwater Sample Analytical Results at IR Site 25 Group: Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-05	2005 01 (Spring)	170	58.0	78.0	37.0	29.0	1,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2004 04 (Winter)	160	49.0	66.0	32.0	26.0	1,500	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3	< 8.3
		2004 02 (Summer)	160	50.0	76.0	37.0	29.0	1,800	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0 J	< 10.0
		2004 01 (Spring)	140	54.0	92.0	54.0	42.0	2,000	< 25.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.5	< 5.0	< 2.5
		2003 04 (Winter)	200 J	79.0 J	120 J	92.0 J	61.0 J	2,200	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	190	58.0	77.0	53.0	39.0	2,600	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	180	71.0	98.0	31.0	46.0 J	2,000	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	140 J	70.0 J	92.0 J	67.0 J	44.0 J	1,800 J	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	3.6 J	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ	< 7.1 UJ
		2002 04 (Winter)	170	58.0	56.0	43.0	22.0	2,500	< 5.0 UJ	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2002 03 (Fall)	150	72.0	78.0	51.0	36.0	1,500	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
	M25-06	2006 01 (Spring)	0.60 J	< 2.0	< 2.0	< 2.0	< 2.0	< 8.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 02 (Summer)	3.2 J	0.30 J	1.0 J	0.50 J	0.40 J	27.0 J	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	1.6	< 0.50	0.60	0.30 J	0.30 J	26.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	7.4	0.70 J	1.5 J	0.70 J	0.60 J	31.0	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	3.8	0.40 J	1.1	0.60	0.50 J	42.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	M25-07	2006 01 (Spring)	0.20 J	< 0.50	0.10 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	0.40 J	< 0.50	0.20 J	< 0.50	< 0.50	6.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.40 J	< 0.50	0.20 J	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.40 J	< 0.70	< 0.70	< 0.70	< 0.70	< 2.9	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 02 (Summer)	2.4	< 1.0	0.50 J	< 1.0	< 1.0	5.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0
	M25-08	2006 01 (Spring)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	0.10 J	< 0.50	< 0.50	0.30 J	0.60	3.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 5.0	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
		2004 02 (Summer)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0
	M25-09	2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	5.4	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	1.1	0.30 J	1.2	0.60	0.50	51.0	4.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	4.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 0.50	0.10 J	0.90	0.40 J	0.40 J	18.0	3.2	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	12.0	1.3	5.8	2.8	2.6	230	3.2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	1.4	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3 J	< 1.3
	P181-MW45	2006 01 (Spring)	84.0	25.0	84.0	49.0	35.0	1,500	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0	< 20.0
		2005 02 (Summer)	130	36.0	92.0	52.0	44.0	2,000	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
		2005 01 (Spring)	76.0	21.0	63.0	33.0	27.0	840	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2004 04 (Winter)	130	29.0	92.0	49.0	44.0	2,200	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
		2004 02 (Summer)	120	36.0	99.0	55.0	41.0	2,000	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3 J	< 6.3
		2004 01 (Spring)	77.0	22.0	56.0	33.0	28.0	1,400	< 50.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.0	< 10.0	< 5.0
		2003 04 (Winter)	160 J	44.0 J	120 J	87.0 J	64.0 J	3,000 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	120	25.0	83.0	39.0	34.0	1,200	< 5.0	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-3

Groundwater Sample Analytical Results at IR Site 25 Group: Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	P181-MW45	2003 02 (Summer)	140 J	40.0 J	92.0 J	28.0 J	44.0 J	1,900 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	150	47.0	110	67.0	52.0	2,300	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
		2002 04 (Winter)	160	57.0	120	75.0	54.0	2,700	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3 UJ	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3	< 6.3
		2002 03 (Fall)	140	40.0	80.0	48.0	38.0	1,000	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	150	47.0	77.0	57.0	40.0	2,700	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
	P181-MW46	2006 01 (Spring)	31.0	16.0	93.0	36.0	35.0	300	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	33.0	9.8	68.0	31.0	30.0	380	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 01 (Spring)	17.0	9.0	83.0	33.0	33.0	210	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	22.0 J	7.2 J	92.0 J	35.0 J	33.0 J	270 J	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
		2004 02 (Summer)	29.0	8.5	75.0	31.0	29.0	390	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	1.2 J	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2004 01 (Spring)	26.0	14.0	96.0	36.0	35.0	540	0.30 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	26.0 J	8.4 J	96.0 J	42.0 J	39.0 J	710 J	0.62 J	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	25.0	11.0	61.0 J	32.0	33.0	380	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	18.0 J	6.9 J	82.0 J	16.0 J	34.0 J	490 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	52.0	21.0	120	49.0	46.0	1,400	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2002 04 (Winter)	120	68.0	220	87.0	79.0	2,600	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2 UJ	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
		2002 03 (Fall)	64.0	33.0	120	49.0	45.0	1,200	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2002 02 (Summer)	49.0	23.0	63.0	26.0	25.0	1,100	4.8	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1
	P181-MW47	2006 01 (Spring)	640	37.0	38.0	30.0	22.0	2,300	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
		2005 02 (Summer)	490	27.0	29.0	25.0	19.0	2,700	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2004 04 (Winter)	720	47.0	39.0	33.0	21.0	2,700	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2004 02 (Summer)	390	16.0 J	23.0	19.0	15.0 J	2,200	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0	< 17.0
		2003 04 (Winter)	570 J	27.0 J	30.0 J	36.0 J	26.0 J	3,100 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	480 J	32.0 J	30.0 J	17.0 J	24.0 J	1,900 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2002 04 (Winter)	480	39.0	32.0	35.0	24.0	2,200	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5 UJ	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
		2002 02 (Summer)	580	43.0	35.0	37.0	27.0	2,500	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0	< 13.0
	PW-12	2006 01 (Spring)	0.70	0.20 J	0.90	0.50	0.60	1.4 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	1.2	0.50	6.6	3.6	6.3	5.1	0.20 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	6.7	1.3	3.4	1.8	2.1	19.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	0.70 J	< 1.0	4.8	2.4	3.3	7.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2004 02 (Summer)	20.0	1.7	8.0	5.1	5.6	16.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	19.0	4.0	5.8	4.4	3.9	160	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	3.0	0.58 J	5.9	3.4	4.8	29.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	30.0	2.1	8.1	5.2	6.7	43.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	29.0 J	2.7 J	9.1 J	2.6 J	7.0 J	84.0 J	< 5.0	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	6.1	0.80	5.8	3.4	3.7	27.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	9.8	1.1	5.6	2.7	3.5	24.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	20.0	1.7	4.3	2.5	2.7	38.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

ITSI Innovative Technical Solutions, Inc.

Table 13-3

Groundwater Sample Analytical Results at IR Site 25 Group: Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	PW-12	2002 02 (Summer)	**27.0**	**3.2**	**3.5**	**2.9**	**3.0**	**130**	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-16	2002 02 (Summer)	**4.6**	**0.50 J**	**0.80**	**0.90**	**0.90**	**28.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-16R	2006 01 (Spring)	**2.5**	**0.10 J**	**0.90**	**0.60**	**0.30 J**	**18.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	**14.0**	**0.40 J**	**2.1**	**1.3**	**0.60**	**27.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	**11.0**	**0.90**	**1.1**	**0.90**	**0.50**	**44.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-35	2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	**2.4**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	**2.3**	**1.6**	**3.6**	**9.0**	**21.0**	**55.0**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	**22.0**	**2.6**	**14.0**	**8.5**	**12.0**	**320**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	**23.0**	**1.8**	**11.0**	**3.8**	**9.3**	**330**	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	**15.0**	**1.4**	**8.4**	**6.3**	**7.4**	**220**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2002 04 (Winter)	**8.2**	**1.1**	**2.0**	**4.1**	**5.2**	**110**	< 0.50	**1.8**	**14.0**	**0.40 J**	**2.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	**28.0**	**3.7**	**9.6**	**15.0**	**30.0**	**230**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	**3.3**	**1.2**	**1.5**	**4.3**	**8.8**	**47.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	S-35R	2004 04 (Winter)	< 0.50	< 0.50	**0.10 J**	< 0.50	**0.20 J**	**1.2 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	**4.4**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 J	< 0.50
	S-35R-2	2006 01 (Spring)	**5.7**	**1.5 J**	**8.7**	**4.4**	**3.5**	**340**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2005 02 (Summer)	**3.5 J**	**0.50 J**	**2.0 J**	**1.8 J**	**1.5 J**	**32.0 J**	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ	< 0.50 UJ
		2005 01 (Spring)	**15.0**	**4.3**	**23.0**	**12.0**	**9.2**	**620**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
SWBZ	D-02	2004 04 (Winter)	< 0.50	**0.10 J**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2004 01 (Spring)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 03 (Fall)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 0.50	**0.30 J**	< 0.50	< 0.50	< 0.50	**1.0 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 0.50	**1.0**	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	D-02R	2006 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.7 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.2 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 13-4

Groundwater Sample Analytical Results at IR Site 25 Group: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs																
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-01	2006 01 (Spring)	300 J	390 J	11.0 J	1.4 J	1.9 J	0.91 J	2.3 J	0.49 J	3.8 J	2.2 J	14.0 J	64.0 J	1.7 J	4,900 J	86.0 J	13.0 J
		2005 02 (Summer)	280 J	470 J	10.0 J	0.68 J	0.72 J	0.38 J	0.80 J	0.16 J	1.1 J	0.69 J	13.0 J	70.0 J	0.33 J	5,600 J	94.0 J	11.0 J
		2004 04 (Winter)	250	560	9.4	0.28	0.19	0.11 J	< 0.19	< 0.090	0.36	< 0.19	8.7	86.0	0.11	6,200	110	7.7
		2004 02 (Summer)	110	570	11.0	1.6	2.2	1.8 J	2.7	0.81 J	4.1	14.0	15.0	67.0	1.9	5,700	90.0	16.0
		2003 04 (Winter)	110	460	13.0	2.3	5.2	2.5	3.9	1.4	7.6	< 0.96	20.0	51.0	3.5	4,300	89.0	16.0
		2003 02 (Summer)	120	420	13.0 J	1.4	2.1	1.5	1.7	0.71	4.6	< 0.19	29.0	54.0	1.6	4,100	88.0	16.0
		2002 04 (Winter)	110	340 J	4.6 J	0.37 J	0.39 J	0.33 J	0.51 J	0.16 J	0.57 J	0.59 J	5.1 J	40.0	0.51 J	4,400	49.0	4.8 J
		2002 03 (Fall)	63.0	340	16.0	2.5	3.3	2.0	3.1	0.85	6.8	3.0	23.0	50.0	4.2	3,600	110	25.0
	M25-02	2006 01 (Spring)	44.0	< 1.9	0.40	0.21	0.070 J	0.050 J	< 0.19	0.0090 J	0.11	< 0.19	5.3	< 0.19	0.050 J	< 0.95	0.33	8.8
		2005 02 (Summer)	< 4.8	< 1.9	< 0.10	0.26	0.050 J	< 0.19	0.010 J	< 0.10	0.11	< 0.19	7.5	< 0.19	< 0.10	< 0.95	0.44	12.0
		2004 04 (Winter)	3.7 J	< 1.9	0.19 J	0.17 J	< 0.10	< 0.19	< 0.19	< 0.10	0.13 J	< 0.19	6.2 J	< 0.19	< 0.10	< 0.97	1.6 J	9.4 J
		2004 02 (Summer)	< 3.8	< 7.6	0.51	< 0.38	< 0.38	< 0.76	< 0.76	< 0.38	0.41	< 0.76	4.8	< 0.76	< 0.38	3.1 J	< 0.38	8.2
		2003 04 (Winter)	6.0	4.5	0.28 J	0.14	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	5.3	< 0.19	< 0.19	3.2	< 0.58	6.9
		2003 02 (Summer)	5.8	5.5	< 0.66	0.15	< 0.090	< 0.19	< 0.19	< 0.090	0.19	< 0.19	9.3	< 0.19	< 0.19	5.1	0.65	7.5
		2002 04 (Winter)	4.7	4.2	0.57	0.18	< 0.090	< 0.19	< 0.19	< 0.090	0.17	< 0.19	2.4	< 0.19	< 0.090	4.3	0.54	3.9
		2002 03 (Fall)	3.1	3.4	0.61	0.21	< 0.10	< 0.19	< 0.19	< 0.10	0.21	< 0.19	3.6	< 0.19	< 0.10	2.8	0.55	6.1
	M25-04	2006 01 (Spring)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.020 J
		2005 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	0.030 J
		2004 04 (Winter)	< 0.97 UJ	< 1.9 UJ	< 0.10 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.10 UJ	< 0.19 UJ	< 0.19 UJ	< 0.19 UJ	< 0.10 UJ	< 0.97 UJ	< 0.10 UJ	< 0.10 UJ
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2003 04 (Winter)	< 2.0	< 2.0	< 0.69	< 0.090	< 0.090	< 0.20	< 0.20 UJ	< 0.090	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 2.0	< 0.59	< 0.30 UJ
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	17.0	< 0.57	< 0.28
		2002 04 (Winter)	< 0.99	< 2.0	0.17	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.44	< 0.20	< 0.10	< 0.99	0.36	0.31
		2002 03 (Fall)	< 0.94	< 1.9	0.10	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.24	< 0.19	< 0.090	0.77 J	0.35	0.18
	M25-05	2006 01 (Spring)	51.0 J	140 J	1.5 J	0.020 J	< 0.10	< 0.19	< 0.19	< 0.10	0.020 J	< 0.19	1.6 J	4.9 J	< 0.10 UJ	610 J	17.0 J	1.2 J
		2005 02 (Summer)	61.0 J	140 J	1.7 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	1.8 J	5.9 J	< 0.10	830 J	17.0 J	1.2 J
		2005 01 (Spring)	13.0 J	47.0 J	0.40 J	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.42	1.5 J	< 0.10	380 J	4.3 J	0.46
		2004 04 (Winter)	70.0	170	1.6	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	1.5	10.0	< 0.10	1,600	18.0	1.2
		2004 02 (Summer)	< 0.95	100	< 0.10	0.040 J	< 0.10	< 0.19	< 0.19	< 0.10	0.040 J	< 0.19	1.5	13.0	< 0.10	2,300	22.0	1.3
		2004 01 (Spring)	28.0	94.0	0.81	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	1.2	6.9	< 0.19	1,300	9.8	< 0.28
		2003 04 (Winter)	36.0	78.0	1.1	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	1.3 J	8.7	< 0.20	1,900	13.0	0.58
		2003 03 (Fall)	33.0	72.0	1.4	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	1.4	9.3	< 0.19	< 1,700	14.0	1.3
		2003 02 (Summer)	36.0	180	1.3	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	2.4	9.8	< 0.19	1,900	13.0	1.1
		2003 01 (Spring)	31.0	< 9.6	1.1	< 0.48	< 0.48	< 0.96	< 0.96	< 0.48	< 0.48	< 0.96	1.6	9.0	< 0.48	1,900	10.0	1.2
		2002 04 (Winter)	53.0 J	140 J	2.1 J	0.14 J	0.090 J	< 0.19	< 0.19	< 0.090	0.14 J	< 0.19	2.7 J	16.0 J	< 0.090	2,200	26.0	2.4 J
		2002 03 (Fall)	21.0 J	140 J	2.4 J	0.090 J	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	3.4 J	12.0 J	< 0.090	1,500	30.0	3.0 J
	M25-06	2006 01 (Spring)	7.4	1.4 J	0.14	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.24	0.43	< 0.10 UJ	0.67 J	1.2	0.20
		2005 02 (Summer)	9.2	< 1.9	0.19	< 0.10	0.010 J	< 0.19	0.030 J	< 0.10	< 0.10	< 0.19	0.45	0.50	0.040 J	6.8	2.1	0.36

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 13-4

Groundwater Sample Analytical Results at IR Site 25 Group: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs																
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-06	2005 01 (Spring)	5.9	< 1.9	0.17 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.20	0.56	< 0.10	22.0	1.9	0.22
		2004 04 (Winter)	14.0 J	< 1.9	0.26 J	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.40 J	1.3 J	< 0.090	51.0 J	3.1 J	0.41 J
		2004 02 (Summer)	19.0	< 1.9	0.56	< 0.10	0.070 J	< 0.19	< 0.19	< 0.10	0.10	< 0.19	0.94	2.7	< 0.10	16.0	7.4	0.89
	M25-07	2006 01 (Spring)	11.0	0.24 J	0.81	0.040 J	< 0.10	0.020 J	0.050 J	< 0.10	0.040 J	< 0.19	1.8	< 0.19	0.040 J	0.63 J	4.7	1.7
		2005 02 (Summer)	8.9	< 1.9	1.0	0.030 J	< 0.10	< 0.19	< 0.19	< 0.10	0.030 J	< 0.19	2.8	< 0.19	< 0.10	7.6	6.2	3.0
		2005 01 (Spring)	3.7 J	< 1.9 UJ	0.55	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19 UJ	1.6 J	< 0.19	< 0.10	1.5 J	4.5	1.6
		2004 04 (Winter)	9.2 J	< 1.9	1.0 J	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	0.10 J	< 0.19	3.6 J	0.82 J	< 0.090	3.6 J	7.5 J	3.9 J
		2004 02 (Summer)	24.0	< 1.9	2.3	0.22	0.24	0.18 J	0.29	0.080 J	0.29	1.5	6.9	< 0.19	0.21	17.0	20.0	7.5
	M25-08	2006 01 (Spring)	0.67 J	< 2.0	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	0.090 J	< 0.20	< 0.10	< 0.98	< 0.10	0.080 J
		2005 02 (Summer)	0.30 J	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.10 J	< 0.19	< 0.10	< 0.96	< 0.10	0.090 J
		2005 01 (Spring)	4.0 J	< 1.9	0.22 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	0.85	< 0.19	< 0.10	2.6 J	0.15 J	0.90
		2004 04 (Winter)	1.3	< 1.9	0.11	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	0.31	< 0.19	< 0.090	0.93 J	< 0.090	0.37
		2004 02 (Summer)	4.0	< 1.9	0.54	0.16	0.25	0.21	0.33	0.090 J	0.19	1.9	3.3	< 0.19	0.28	4.1	0.79	3.4
	M25-09	2006 01 (Spring)	3.1	< 2.0	0.33	0.080 J	0.050 J	0.030 J	< 0.20	< 0.10	0.080 J	< 0.20	1.5	1.0	0.050 J	< 1.0	0.30	1.3
		2005 02 (Summer)	20.0	8.5	1.7	0.16	0.12	0.040 J	0.11 J	0.010 J	0.15	0.14 J	3.4	4.4	0.10	59.0	1.8	3.0
		2004 04 (Winter)	9.1	< 1.9	1.6	0.14	< 0.090	< 0.19	< 0.19	< 0.090	0.16	< 0.19	3.5	1.9	< 0.090	12.0	11.0	3.3
		2004 02 (Summer)	46.0 J	41.0 J	5.4 J	0.29 J	0.16 J	0.17 J	0.22 J	< 0.10	0.30 J	< 0.19	10.0 J	18.0 J	0.13 J	340 J	54.0 J	9.8 J
	P181-MW45	2006 01 (Spring)	140 J	170 J	5.3 J	0.13 J	< 0.10	< 0.20	< 0.20	< 0.10	0.11 J	< 0.20	6.5 J	15.0 J	< 0.10	2,000 J	44.0 J	5.2 J
		2005 02 (Summer)	170 J	190 J	8.8 J	0.19 J	< 0.10	< 0.19	< 0.19	< 0.10	0.15 J	< 0.19	10.0 J	17.0 J	< 0.10	2,700 J	74.0 J	8.2 J
		2005 01 (Spring)	56.0 J	< 2.0	4.3 J	0.080 J	< 0.10	< 0.20	< 0.20	< 0.10	0.080 J	< 0.20 UJ	6.0 J	7.8 J	< 0.10	1,900 J	44.0	5.2 J
		2004 04 (Winter)	130	160	7.0	0.16	< 0.10	< 0.20	< 0.20	< 0.10	0.18	< 0.20	8.4	18.0	< 0.10	2,600	69.0	7.7
		2004 02 (Summer)	84.0 J	< 19.0	7.8 J	0.22 J	< 0.10	< 0.19	< 0.19	< 0.10	0.23 J	< 0.19	9.2 J	17.0 J	< 0.10	2,900 J	78.0 J	8.8 J
		2004 01 (Spring)	78.0	130	4.7	0.10	< 0.10	< 0.20	< 0.20	< 0.10	0.12 J	< 0.20	8.5	12.0	< 0.20	1,900	47.0 J	5.0
		2003 04 (Winter)	91.0	95.0	6.9	0.15	< 0.090	< 0.19	< 0.19	< 0.090	0.18 J	< 0.19	11.0	14.0	< 0.19	1,900	62.0	6.4
		2003 03 (Fall)	70.0	74.0	6.3	0.087 J	< 0.090	< 0.19	< 0.19	< 0.090	0.13 J	< 0.19	7.8	11.0	< 0.19	1,700 J	50.0	7.5
		2003 02 (Summer)	100	220	7.4	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	18.0	14.0	< 0.19	2,200	65.0	8.7 J
		2003 01 (Spring)	97.0	200 J	6.9	0.50	< 0.47	< 0.94	< 0.94	< 0.47	0.58	< 0.94	8.0 J	18.0 J	< 0.47	2,400	63.0	7.2 J
		2002 04 (Winter)	56.0 J	98.0 J	4.4 J	0.19 J	0.090 J	< 0.19	< 0.19	< 0.090	0.20 J	< 0.19	5.5 J	11.0 J	< 0.090	1,500	41.0	4.9 J
		2002 03 (Fall)	28.0	40.0	3.0	0.11	< 0.090	< 0.19	< 0.19	< 0.090	0.11	< 0.19	3.2	6.1	< 0.090	1,200	27.0	3.0
		2002 02 (Summer)	43.0	190	5.2	0.10	< 0.090	< 0.19	< 0.19	< 0.090	0.12	< 0.19	5.4	12.0	< 0.090	2,100	48.0	5.1
	P181-MW46	2006 01 (Spring)	110 J	98.0 J	2.7 J	0.20 J	0.030 J	0.040 J	< 0.20	< 0.10	0.17 J	< 0.20	8.3 J	7.4 J	< 0.10	430 J	15.0 J	8.3 J
		2005 02 (Summer)	80.0	60.0	2.1	0.17	< 0.10	< 0.19	< 0.19	< 0.10	0.12	< 0.19	8.6	4.1	< 0.10	330	16.0	8.3
		2005 01 (Spring)	59.0 J	49.0 J	1.9 J	0.20	0.050 J	< 0.19	< 0.19	< 0.10	0.16	< 0.19	8.1	3.7 J	< 0.10	200 J	13.0 J	8.1
		2004 04 (Winter)	73.0 J	130 J	3.1 J	0.19 J	< 0.10	< 0.20	< 0.20	< 0.10	0.18 J	< 0.20	8.1 J	6.4 J	< 0.10	260 J	17.0 J	8.7 J
		2004 02 (Summer)	49.0 J	130 J	2.7 J	0.16 J	< 0.090	< 0.19	< 0.19	< 0.090	0.17 J	< 0.19	6.9 J	6.1 J	< 0.090	490 J	16.0 J	7.1 J
		2004 01 (Spring)	59.0	75.0	2.4	0.12	< 0.090	< 0.19	< 0.19	< 0.090	0.11 J	< 0.19	7.2	5.1	< 0.19	390	14.0	5.5
		2003 04 (Winter)	59.0	130	2.8	0.19	< 0.090	< 0.20	< 0.20	< 0.090	0.20	< 0.20	9.6	7.5	< 0.20	510	15.0	6.1
		2003 03 (Fall)	56.0	63.0	3.9	0.14	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	8.0	6.5	< 0.19	340 J	15.0	6.9

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-4

Groundwater Sample Analytical Results at IR Site 25 Group: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs																
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	P181-MW46	2003 02 (Summer)	61.0	140	3.6	0.15	< 0.090	< 0.19	< 0.19	< 0.090	0.16 J	< 0.19	11.0	6.9	< 0.19	480	16.0 J	5.8
		2003 01 (Spring)	71.0	150 J	2.8 J	0.52	< 0.47	< 0.94	< 0.94	< 0.47	0.60	< 0.94	5.4 J	11.0 J	< 0.47	1,400	18.0	5.4
		2002 04 (Winter)	91.0 J	170 J	3.2 J	0.34 J	0.25 J	0.28 J	0.34 J	0.13 J	0.38 J	0.42 J	4.9 J	12.0 J	0.29 J	1,900	25.0	5.0 J
		2002 03 (Fall)	58.0 J	63.0 J	2.9 J	0.59 J	0.68 J	0.41 J	0.55 J	0.18 J	0.91 J	0.61 J	6.1 J	8.6 J	0.76 J	1,300	16.0	6.8 J
		2002 02 (Summer)	43.0	79.0	2.6	0.56	0.31	0.19 J	0.25	0.070 J	0.60	< 0.19	6.5	7.5	0.45	910	10.0	7.2
	P181-MW47	2006 01 (Spring)	120 J	130 J	5.1 J	0.14 J	< 0.10	0.010 J	< 0.19	< 0.10	0.13 J	< 0.19	6.5 J	23.0 J	< 0.10	2,100 J	41.0 J	5.4 J
		2005 02 (Summer)	130 J	220 J	8.3 J	0.24 J	0.010 J	< 0.19	< 0.19	< 0.10	0.19 J	< 0.19	9.9 J	34.0 J	< 0.10	2,800 J	64.0 J	8.9 J
		2005 01 (Spring)	43.0 J	100 J	5.7 J	0.17 J	< 0.10	< 0.19	< 0.19	< 0.10	0.15 J	< 0.19	7.1 J	23.0 J	< 0.10	2,100 J	47.0 J	6.2 J
		2004 04 (Winter)	100	250	8.2	0.23	< 0.10	< 0.19	< 0.19	< 0.10	0.22	< 0.19	9.6	39.0	< 0.10	3,200	73.0	9.0
		2004 02 (Summer)	60.0 J	170 J	5.7 J	0.16 J	< 0.090	< 0.19	< 0.19	< 0.090	0.15 J	< 0.19	6.6 J	27.0 J	< 0.090	2,400 J	54.0 J	6.4 J
		2004 01 (Spring)	50.0	97.0	5.0	0.16	< 0.090	< 0.19	< 0.19	< 0.090	0.17 J	< 0.19	8.7	21.0	< 0.19	1,500	47.0 J	5.7
		2003 04 (Winter)	30.0	100	5.3	0.20	< 0.090	< 0.19	< 0.19	< 0.090	0.22	< 0.19	9.1	18.0	< 0.19	1,100	46.0	5.5
		2003 03 (Fall)	56.0	58.0	4.7	0.098	< 0.090	< 0.19	< 0.19	< 0.090	0.12 J	< 0.19	5.8	19.0	< 0.19	1,600 J	38.0	5.5
		2003 02 (Summer)	49.0	220	6.3	0.16	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	15.0	27.0	< 0.19	2,000	49.0	6.8
		2003 01 (Spring)	68.0 J	150 J	5.5	0.57	0.61	< 0.94	< 0.94	< 0.47	0.64	< 0.94	7.3 J	28.0 J	< 0.47	1,500	48.0	6.9
		2002 04 (Winter)	37.0 J	120 J	3.6 J	0.23 J	0.11 J	< 0.19	< 0.19	< 0.10	0.21 J	< 0.19	4.8 J	19.0 J	< 0.10	1,600	33.0	4.6 J
		2002 03 (Fall)	22.0 J	160 J	4.5 J	0.23 J	0.090 J	0.13 J	< 0.19	< 0.090	0.21 J	< 0.19	6.6 J	24.0	0.13 J	1,800	38.0	6.2 J
		2002 02 (Summer)	17.0	290	5.0	0.20	< 0.10	< 0.20	< 0.20	< 0.10	0.18	< 0.20	7.4	23.0	< 0.10	2,200	44.0	7.2
	PW-12	2006 01 (Spring)	14.0	15.0	1.3	0.090 J	0.030 J	0.020 J	< 0.20	< 0.10	0.070 J	< 0.20	2.8	< 0.20	< 0.10	13.0	3.1	2.4
		2005 02 (Summer)	37.0	42.0	3.8	0.22	< 0.10	< 0.19	< 0.19	< 0.10	0.15	< 0.19	9.5	< 0.19	< 0.10	6.3	8.7	8.1
		2005 01 (Spring)	17.0 J	19.0 J	2.4 J	0.060 J	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	4.1	1.0 J	< 0.10	35.0 J	5.4 J	3.5
		2004 04 (Winter)	34.0 J	43.0 J	3.9 J	0.15 J	< 0.090	< 0.19	< 0.19	< 0.090	0.14 J	0.31 J	7.2 J	2.9 J	< 0.090	< 0.94	9.2 J	6.7 J
		2004 02 (Summer)	30.0 J	53.0	2.6	0.090 J	< 0.090	< 0.19	< 0.19	< 0.090	0.080 J	< 0.19	4.0	< 0.19 J	< 0.090	10.0	6.0	3.8
		2004 01 (Spring)	23.0	45.0	3.1	0.19	< 0.090	< 0.19	< 0.19	< 0.090	0.18 J	< 0.19	8.5	2.6	< 0.19	170	7.3	5.7
		2003 04 (Winter)	24.0	39.0	3.0	0.13	< 0.090	< 0.19	< 0.19	< 0.090	0.13 J	< 0.19	7.4	< 0.19	< 0.19	28.0	6.0	4.4
		2003 03 (Fall)	23.0	42.0	3.3	0.097	< 0.090	< 0.19	< 0.19	< 0.090	0.098 J	< 0.19	5.9	< 0.19	< 0.19	40.0 J	6.3	4.8
		2003 02 (Summer)	20.0	57.0 J	2.3	0.070 J	< 0.10	< 0.20	< 0.20	< 0.10	< 0.20	< 0.20	6.5	< 0.20 UJ	< 0.20	91.0	4.9	3.0
		2003 01 (Spring)	8.7	24.0	0.75	0.12	0.12	< 0.20	< 0.20	< 0.10	0.13	< 0.20	1.1	1.0	< 0.10	23.0	2.4	0.94
		2002 04 (Winter)	19.0	40.0	2.0	0.23	0.13	< 0.20	< 0.20	< 0.10	0.21	< 0.20	4.7	1.9	< 0.10	24.0	5.8	4.5
		2002 03 (Fall)	13.0	23.0	1.7	0.21	0.12	< 0.19	< 0.19	< 0.10	0.20	< 0.19	3.9	< 0.19	< 0.10	12.0	4.7	3.8
		2002 02 (Summer)	20.0	46.0	3.0	0.19	< 0.090	< 0.19	< 0.19	< 0.090	0.17	< 0.19	7.6	< 0.19	< 0.090	45.0	7.9	7.6
	S-16	2002 02 (Summer)	15.0	21.0	0.21	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	1.3	< 0.19	< 0.090	27.0	1.1	1.3
	S-16R	2006 01 (Spring)	10.0	8.9	0.30	0.13	0.24	0.17 J	0.35	0.060 J	0.15	0.33	0.87	1.4	0.26	19.0	2.9	0.77
		2005 02 (Summer)	9.6	< 1.9	0.28	0.040 J	0.070 J	< 0.19	0.11 J	< 0.10	0.030 J	0.12 J	0.73	0.99	0.11	17.0	2.6	0.63
		2005 01 (Spring)	8.8 J	4.0 J	0.26	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19 UJ	0.55 J	1.2 J	< 0.10	27.0 J	3.3	0.52
		2004 04 (Winter)	32.0 J	11.0 J	1.1 J	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	2.2 J	4.9 J	< 0.10	61.0 J	12.0 J	1.9 J
	S-35	2004 02 (Summer)	0.65 J	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19 J	< 0.090	< 0.94	< 0.090	< 0.090
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	2.2	< 0.57	< 0.28

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-4

Groundwater Sample Analytical Results at IR Site 25 Group: Polycyclic Aromatic Hydrocarbons

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			PAHs																
			Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	NA	NA	0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	S-35	2003 04 (Winter)	**59.0**	**14.0**	**1.2**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**3.6**	< 0.19	< 0.19	**47.0**	**3.3**	**2.2**
		2003 03 (Fall)	**100**	**91.0**	**2.4**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**2.7**	< 0.19	< 0.19	**330 J**	**11.0**	**2.3**
		2003 02 (Summer)	**100**	**37.0**	**1.6**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	**3.4**	< 0.19	< 0.19	**350**	**6.6**	**1.3**
		2003 01 (Spring)	**63.0**	< 2.0	**0.57 J**	< 0.10	**0.13**	**0.16 J**	< 0.20	**0.11**	< 0.10	< 0.20	**0.72 J**	**3.3 J**	**0.16**	**210**	**3.9**	**0.60**
		2002 04 (Winter)	**48.0**	< 1.9	**1.1**	**0.14**	< 0.10	< 0.19	< 0.19	< 0.10	**0.15**	< 0.19	**2.5**	**1.9 J**	< 0.10	< 0.95	**5.4**	**2.7**
		2002 03 (Fall)	**130**	**79.0**	**1.9**	**0.090 J**	< 0.090	< 0.19	< 0.19	< 0.090	**0.090 J**	< 0.19	**3.8**	< 0.19	< 0.090	**340**	**4.4**	**3.3**
		2002 02 (Summer)	**24.0**	**20.0**	**0.39**	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	**0.81**	< 0.19	< 0.090	**2.6**	**0.54**	**0.88**
	S-35R	2004 04 (Winter)	**4.1 J**	< 1.9	**0.34 J**	**0.16 J**	< 0.10	< 0.19	< 0.19	< 0.10	**0.19 J**	< 0.19	**2.3 J**	**0.19 J**	< 0.10	**2.0 J**	**1.4 J**	**3.5 J**
		2004 02 (Summer)	**8.5 J**	**3.0**	**1.1**	**0.32**	**0.11**	**0.15 J**	< 0.19	**0.060 J**	**0.31**	< 0.19	**5.5**	**0.74 J**	< 0.10	**5.7**	**4.0**	**6.6**
	S-35R-2	2006 01 (Spring)	**40.0**	**37.0**	**2.0**	**0.46**	**0.46**	**0.30**	**0.51**	**0.12**	**0.54**	**0.50**	**5.9**	**6.4**	**0.40**	**300**	**6.4**	**7.3**
		2005 02 (Summer)	**59.0**	**17.0**	**1.7**	**0.14**	< 0.10	< 0.19	< 0.19	< 0.10	**0.14**	< 0.19	**3.4**	< 0.19	< 0.10	**40.0**	**7.8**	**4.1**
		2005 01 (Spring)	**27.0 J**	**25.0 J**	**7.9 J**	**0.92 J**	**0.66 J**	**0.44 J**	**0.55 J**	**0.16 J**	**1.1 J**	**0.48 J**	**17.0 J**	**26.0 J**	**0.51 J**	**4.6 J**	**60.0**	**14.0 J**
SWBZ	D-02	2004 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2004 02 (Summer)	< 0.95	< 1.9	< 0.10	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	< 0.19	< 0.19	< 0.10	< 0.95	< 0.10	< 0.10
		2004 01 (Spring)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.56	< 0.28
		2003 04 (Winter)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	**2.0**	< 0.58	< 0.29
		2003 03 (Fall)	< 1.9	< 1.9	< 0.67	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 3.7 UJ	< 0.58	< 0.29
		2003 02 (Summer)	< 1.9	< 1.9	< 0.66	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.9	< 0.57	< 0.28
		2003 01 (Spring)	< 0.98	< 2.0	< 0.10	< 0.10	**0.12**	< 0.20	< 0.20	< 0.10	< 0.10	< 0.20	< 0.20	< 0.20	**0.15**	< 0.98	< 0.10	< 0.10
		2002 04 (Winter)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 03 (Fall)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	< 0.090	< 0.090
		2002 02 (Summer)	< 0.94	< 1.9	< 0.090	< 0.090	< 0.090	< 0.19	< 0.19	< 0.090	< 0.090	< 0.19	< 0.19	< 0.19	< 0.090	< 0.94	**0.090 J**	< 0.090
	D-02R	2006 01 (Spring)	**0.93 J**	< 1.9	**0.060 J**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.28**	**0.51**	< 0.10	< 0.97	**0.93**	**0.22**
		2005 02 (Summer)	**0.90 J**	< 1.9	**0.020 J**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.29**	**0.79**	< 0.10	**1.5**	**1.3**	**0.23**
		2005 01 (Spring)	< 0.95 UJ	< 1.9	**0.10 J**	< 0.10	< 0.10	< 0.19	< 0.19	< 0.10	< 0.10	< 0.19	**0.30**	**0.43 J**	< 0.10	**2.3 J**	**1.5 J**	**0.28**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-5

Groundwater Sample Analytical Results at IR Site 25 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements						
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
	Well Number	Event AWQC:	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	M25-01	2006 01 (Spring)	< 1.0	7.7	**660**	0.40 J	< 5.0	**3.8 J**	3.5	1.6 J	< 3.0	**1,600**	< 0.20	2.4 J	< 20.0	**7.0**	< 5.0	**5.8**	5.5 J	4.4 J	< 100	**16,000**	320	1,000	230	7,900
		2005 02 (Summer)	0.31 J	6.2	**840**	< 2.0	1.2 J	**4.9 J**	3.1	< 10.0	< 3.0	**1,600**	< 0.20	3.3 J	2.3 J	**5.8**	< 5.0	0.68 J	6.8 J	8.1 J	< 100	**20,000**	270	910	210	7,000
		2004 04 (Winter)	0.44 J	< 5.0	**730**	< 2.0	< 5.0	**7.3 J**	3.2	4.2 J	0.18 J	**1,500**	0.10 J	0.59 J	**11.0 J**	< 5.0 UJ	< 5.0	< 5.0	**8.5 J**	**17.0 J**	5.1 J	**22,000**	330	1,100	250	8,100
		2004 02 (Summer)	< 1.0	< 1.0	**740**	< 2.0	< 5.0	**9.1 J**	3.4	< 10.0	0.59 J	**1,700**	< 0.20	< 20.0	6.0 J	< 5.0	**3.1 J**	< 1.0	**9.3 J**	< 20.0	< 50.0	**20,000**	320	1,100	270	7,900
		2003 04 (Winter)	< 25.0 UJ	< 50.0	**822**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**1,440**	< 0.40	**12.4 J**	< 20.0	< 20.0	< 10.0	< 25.0 UJ	8.2 J	< 20.0	< 200	**22,300**	302	1,300	380	10,200
		2003 02 (Summer)	< 50.0	**15.4 J**	**825 J**	**1.8 J**	**3.2 J**	**8.8 J**	**5.3 J**	2.7 J	< 10.0	**2,110 J**	-	< 50.0	**7.6 J**	< 20.0	< 10.0	< 50.0	**10.0 J**	8.3 J	**236 J**	**25,400 J**	325	1,040	276 J	6,940 J
		2002 04 (Winter)	0.29 J	< 5.0	**600**	0.025 J	0.22 J	**6.4 J**	3.3 J	**9.3 J**	0.26 J	**1,800**	< 0.20	< 20.0	**13.0 J**	< 5.0	< 5.0	< 2.0	**8.6 J**	< 20.0	< 100	**23,000**	290	910	230	< 0.50
		2002 03 (Fall)	< 50.0	< 5.0	**330**	< 2.0	< 5.0	**4.7 J**	4.1 J	4.8 J	< 3.0	**1,700**	< 0.20	3.0 J	**8.1 J**	< 5.0 UJ	< 5.0	< 2.0	7.7 J	< 20.0	< 100	**1,900**	7.3	23.0	250	190
	M25-02	2006 01 (Spring)	< 1.0	0.78 J	**170**	0.31 J	0.64 J	< 10.0	0.31 J	1.6 J	0.29 J	1,100	< 0.20	< 20.0	1.2 J	< 5.0	< 5.0	< 5.0	3.2 J	4.9 J	< 10,000	**2,100**	95.0	160	48.0	1,100
		2005 02 (Summer)	0.13 J	< 5.0	**250**	< 2.0	< 5.0	< 10.0	0.47 J	< 10.0	< 3.0	**1,700**	< 0.20	< 20.0	3.1 J	< 5.0	< 5.0	< 5.0	1.5 J	**18.0 J**	< 100	170	140	160	49.0	930
		2004 04 (Winter)	0.12 J	3.3 J	**210**	< 2.0	< 5.0	2.4 J	0.58 J	0.43 J	0.14 J	**1,200**	< 0.20	< 20.0	3.5 J	**12.0 J**	< 5.0	< 5.0	5.0 J	5.3 J	3.0 J	480	130	180	53.0	1,100
		2004 02 (Summer)	< 1.0	< 1.0	**220**	< 2.0	< 5.0	1.2 J	0.56 J	< 10.0	0.21 J	**1,500**	< 0.20	< 20.0	2.3 J	< 5.0	< 5.0	< 1.0	1.5 J	< 20.0	< 50.0	180	150	200	55.0	1,200
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**169**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	684	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 25.0 UJ	< 50.0	< 20.0	< 200	395	92.2	179	55.3	1,400
		2003 02 (Summer)	< 50.0	< 50.0	**243**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	955	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	2.1 J	< 200	1,230	130	246	55.2	1,440 J
		2002 04 (Winter)	< 50.0	3.6 J	**280**	< 2.0	< 5.0	< 10.0	0.79 J	1.4 J	0.041 J	1,100	< 0.20	< 20.0	3.6 J	**13.0**	< 5.0	< 2.0	4.6 J	< 20.0	4.6 J	**5,400**	140	280	66.0	2,100
		2002 03 (Fall)	< 50.0	6.8	**250**	< 2.0	< 5.0	1.6 J	0.80 J	0.63 J	< 3.0	1,100	< 0.20	< 20.0	3.9 J	**5.1 J**	< 5.0	< 2.0	2.8 J	< 20.0	< 100	**3,000**	150	270	66.0	2,000
	M25-04	2006 01 (Spring)	0.49 J	3.5 J	39.0	< 2.0	0.25 J	< 10.0	0.31 J	**9.9 J**	< 3.0	99.0	< 0.20	< 20.0	**20.0**	< 5.0	< 5.0	< 5.0	4.9 J	9.0 J	< 10,000	45.0 J	17.0	12.0	7.5	42.0 J
		2005 02 (Summer)	0.40 J	< 5.0	52.0	< 2.0	< 5.0	< 10.0	0.79 J	< 10.0	< 3.0	200	< 0.20	< 20.0	**20.0**	< 5.0	< 5.0	< 5.0	3.4 J	**18.0 J**	< 100	720	18.0	12.0	7.2	42.0
		2004 04 (Winter)	0.33 J	4.1 J	46.0	< 2.0	< 5.0	1.3 J	0.38 J	2.8 J	0.30 J	110	< 0.20	1.5 J	**9.4 J**	< 5.0 UJ	< 5.0	< 5.0	7.1 J	6.3 J	5.4 J	81.0 J	23.0	16.0	11.0	72.0
		2004 02 (Summer)	< 1.0	4.3	39.0	< 2.0	< 5.0	< 10.0	0.46 J	< 10.0	0.53 J	170	< 0.20	< 20.0	**12.0 J**	< 5.0	< 5.0	< 1.0	3.4 J	< 20.0	< 50.0	83.0 J	19.0	13.0	9.4	55.0
		2003 04 (Winter)	< 5.0 UJ	4.8 J	39.3 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	122	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0 UJ	< 50.0	< 20.0	< 200	147	16.9	13.9	< 12.8	86.1
		2003 02 (Summer)	< 50.0	< 50.0	43.5 J	< 4.0	< 5.0	< 10.0	< 10.0	3.2 J	< 10.0	120 J	-	< 50.0	**12.0 J**	< 20.0	< 10.0	< 5.0	6.4 J	4.3 J	< 200	81.7 J	22.1	15.3	11.6 J	58.4 J
		2002 04 (Winter)	0.42 J	< 7.4	< 100	0.025 J	< 50.0 UJ	2.1 J	1.3 J	5.3 J	0.20 J	800	< 0.20	< 200	**9.8 J**	< 5.0	< 50.0	< 2.0	5.6 J	**11.0 J**	< 1,000	**4,400**	73.0	180	55.0	1,500
		2002 03 (Fall)	< 50.0	5.2	47.0	< 2.0	< 5.0	0.86 J	1.2 J	2.6 J	< 3.0	410	< 0.20	2.4 J	**9.2 J**	< 5.0 UJ	< 5.0	< 2.0	3.1 J	< 20.0	< 100	500	27.0	29.0	15.0	190
	M25-05	2006 01 (Spring)	< 1.0	< 5.0	**690**	0.39 J	< 5.0	**3.8 J**	3.5	1.4 J	< 3.0	770	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	**4.7 J**	**12.0**	4.4 J	< 100	1,400	290	950	250	7,700
		2005 02 (Summer)	0.38 J	< 5.0	**710**	< 2.0	< 5.0	**5.6 J**	2.9	< 10.0	< 3.0	930	< 0.20	< 20.0	1.3 J	< 5.0	< 5.0	< 5.0	**16.0**	6.9 J	**140 J**	1,200	260	840	220	6,100
		2005 01 (Spring)	0.22 J	< 5.0	**600**	< 2.0	< 5.0	1.5 J	2.9	< 10.0	< 3.0	800	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	8.2 J	**11.0 J**	< 100	< 100	280	940	270	7,800
		2004 04 (Winter)	0.36 J	< 5.0	**890**	< 2.0	< 5.0	**6.1 J**	4.1	**15.0**	0.40 J	**1,200**	< 0.20	0.73 J	**14.0 J**	< 5.0 UJ	< 5.0	< 5.0	**18.0**	**18.0 J**	11.0 J	**6,200**	370	1,200	290	9,000
		2004 02 (Summer)	0.46 J	< 1.0	**860**	< 2.0	< 5.0	**7.2 J**	3.7	< 10.0	0.46 J	**1,300**	< 0.20	< 20.0	3.5 J	< 5.0	**1.7 J**	< 1.0	**13.0**	< 20.0	< 50.0	**4,600**	330	1,100	280	7,800
		2004 01 (Spring)	2.7 J	< 50.0	**613**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**1,270**	< 1.0	**25.2 J**	< 20.0	< 20.0	< 10.0	< 10.0	**13.5 J**	< 20.0	< 200	**2,440**	281	1,050	297 J	8,360
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**661**	< 4.0	< 5.0	< 10.0	**7.5 J**	< 10.0	< 10.0 UJ	**1,300**	-	< 50.0	< 20.0	< 20.0	< 10.0	-	**11.6 J**	< 20.0	< 200	1,450	282	937	346	8,310
		2003 03 (Fall)	< 5.0	7.3 J	**832**	< 4.0	< 5.0	< 10.0	3.9 J	< 10.0	< 10.0	**1,610**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0	7.9 J	< 20.0	< 200	**4,080**	317	1,040	290 J	6,860
		2003 02 (Summer)	< 50.0	**10.7 J**	**600 J**	< 4.0	< 5.0	**4.0 J**	2.2 J	< 10.0	< 10.0	**1,690 J**	-	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	7.2 J	< 20.0	< 200	**3,820 J**	306	926	269 J	6,440 J
		2003 01 (Spring)	0.29 J	**22.0**	**490**	< 2.0	< 5.0	**4.1 J**	2.5 J	4.4 J	< 3.0	**1,500**	< 0.20	0.39 J	3.2 J	**4.1 J**	< 5.0	< 1.2	**8.8 J**	< 20.0	6.7 J	**2,300**	240	830	230	6,800
		2002 04 (Winter)	0.36 J	< 5.0	**970 J**	< 2.0	< 5.0	**5.4 J**	4.2 J	**11.0**	0.068 J	**1,700**	< 0.20	< 20.0	**16.0 J**	< 5.0 UJ	< 5.0	< 2.0	**11.0**	< 20.0	8.5 J	**14,000 J**	330	1,100	270	8,000
		2002 03 (Fall)	0.48 J	< 5.0	**650**	< 2.0	< 5.0	3.4 J	4.2 J	**3.8 J**	< 3.0	**1,900**	< 0.20	0.58 J	**7.5 J**	< 5.0 UJ	< 5.0	< 2.0	**9.1 J**	< 20.0	< 100	**1,900**	360	1,100	230	8,500
	M25-09	2006 01 (Spring)	< 1.0	5.5	**320**	0.30 J	0.32 J	3.3 J	1.0	0.63 J	0.19 J	**4,000**	< 0.20	< 20.0	1.9 J	**3.4 J**	< 5.0	< 5.0	2.5 J	**16.0 J**	< 10,000	**150,000**	67.0	110	52.0	650
		2005 02 (Summer)	0.31 J	4.1 J	**320**	< 2.0	**4.2 J**	< 10.0	1.5	< 10.0	< 3.0	**2,900**	< 0.20	< 20.0	4.0 J	< 5.0	< 5.0	< 5.0	< 10.0	**22.0 J**	< 100	**88,000**	56.0	89.0	57.0	750

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

ITSI Innovative Technical Solutions, Inc.

Table 13-5
Groundwater Sample Analytical Results at IR Site 25 Group: Dissolved Metals
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
		BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	M25-09	2004 04 (Winter)	0.18 J	3.2 J	**380**	< 2.0	< 5.0	3.1 J	1.2	1.5 J	0.097 J	**4,900**	< 0.20	0.37 J	4.8 J	< 5.0 UJ	< 5.0	< 5.0	2.6 J	6.4 J	8.0 J	**180,000**	81.0	99.0	66.0	600
		2004 02 (Summer)	0.17 J	6.2	**160**	< 2.0	< 5.0	< 10.0	**4.9**	< 10.0	0.54 J	**3,700**	0.092 J	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	< 10.0	**15.0 J**	< 50.0	**83,000**	85.0	160	82.0	1,300
	P181-MW45	2006 01 (Spring)	< 1.0	4.9 J	**700**	0.41 J	**2.3 J**	**3.5 J**	2.3	< 10.0	< 3.0	190	< 0.20	< 20.0	4.5 J	< 5.0	0.17 J	< 5.0	4.7 J	6.9 J	< 10,000	**10,000**	240	950	190	7,100
		2005 02 (Summer)	0.63 J	< 500	**1,200**	< 2.0	1.1 J	2.1 J	3.5	< 10.0	< 3.0	220	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.1 J	**14.0 J**	74.0 J	**26,000**	220	880	190	6,300
		2004 04 (Winter)	0.32 J	< 5.0	**1,400**	< 2.0	< 5.0	**6.5 J**	4.0	**9.3 J**	0.35 J	240	< 0.20	0.77 J	**13.0 J**	< 5.0 UJ	< 5.0	< 5.0	**8.8 J**	**19.0 J**	6.5 J	**36,000**	310	1,200	240	8,600
		2004 02 (Summer)	0.35 J	< 1.0	**1,400**	< 2.0	< 5.0	< 10.0	3.9	< 10.0	0.69 J	240	0.049 J	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	5.9 J	< 20.0	< 50.0	**29,000**	290	1,100	240	8,500
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**1,490**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	260	-	< 50.0	< 20.0	< 20.0	< 10.0	-	**9.2 J**	< 20.0	< 200	**29,300**	261	1,090	358	10,100
		2003 02 (Summer)	< 50.0	**16.0 J**	**1,960 J**	< 4.0	**1.7 J**	**4.3 J**	3.8 J	< 10.0	< 10.0	311 J	-	< 50.0	5.6 J	< 20.0	< 10.0	< 50.0	6.8 J	< 20.0	< 200	**39,700 J**	312	1,260	295 J	7,920 J
		2002 04 (Winter)	0.25 J	< 9.5	**1,600**	0.036 J	0.091 J	**4.7 J**	3.6 J	5.6 J	0.056 J	220	< 0.20	< 20.0	**11.0 J**	< 5.0	0.025 J	**6.4**	5.9 J	< 20.0	< 100	**30,000 J**	250	1,000	210	7,800
		2002 02 (Summer)	0.20 J	< 5.0	**1,600 J**	< 2.0	< 5.0	**19.0**	4.0 J	**8.2 J**	0.054 J	230	0.086 J	0.44 J	**9.0 J**	< 5.0	**1.9 J**	< 2.0	**11.0**	< 20.0	4.3 J	**22,000**	**450**	1,800	190	7,900
	P181-MW46	2006 01 (Spring)	< 1.0	0.99 J	**820**	0.44 J	**1.5 J**	< 10.0	0.94 J	1.5 J	< 3.0	1,000	< 0.20	< 20.0	0.92 J	< 5.0	< 5.0	< 5.0	2.8 J	2.8 J	< 10,000	**2,000**	160	410	85.0	2,800
		2005 02 (Summer)	0.53 J	4.0 J	**720**	< 2.0	< 5.0	< 10.0	1.2	< 10.0	< 3.0	860	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	2.1 J	**14.0 J**	79.0 J	1,100	120	310	63.0	2,100
		2004 04 (Winter)	0.32 J	2.6 J	**860**	< 2.0	< 5.0	2.7 J	1.5	2.2 J	0.26 J	**1,200**	0.073 J	0.22 J	4.0 J	< 5.0 UJ	< 5.0	< 5.0	5.7 J	**12.0 J**	4.3 J	1,300	180	430	85.0	3,000
		2004 02 (Summer)	0.14 J	< 5.0	**840**	< 2.0	< 5.0	< 10.0	1.6	< 10.0	0.16 J	**1,200**	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 1.0	< 10.0	**18.0 J**	< 50.0	**1,800**	180	430	82.0	3,100
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**662**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	813	-	< 50.0	< 20.0	< 20.0	< 10.0	-	5.6 J	< 20.0	< 200	**3,170**	121	298	73.4	2,360
		2003 02 (Summer)	< 50.0	< 50.0	**844 J**	< 4.0	< 5.0	2.0 J	1.9 J	< 10.0	< 10.0	982 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	**3,360 J**	175	449	82.3 J	2,450 J
		2002 04 (Winter)	< 50.0	< 5.0	**1,200**	0.032 J	< 100 UJ	2.9 J	2.2 J	3.0 J	0.067 J	610	< 0.20	< 400	6.9 J	< 5.0	< 100	< 2.0	3.0 J	< 20.0	< 2,000	**13,000**	160	530	110	4,000
		2002 02 (Summer)	0.079 J	< 5.0	**800 J**	< 2.0	< 5.0	**11.0**	1.6 J	2.3 J	0.082 J	880	0.071 J	0.44 J	3.1 J	< 5.0	0.87 J	< 2.0	6.3 J	< 20.0	19.0 J	**10,000**	160	430	78.0	3,100
	P181-MW47	2006 01 (Spring)	0.40 J	2.3 J	**840**	< 200	**1.7 J**	**3.7 J**	1.8	< 10.0	< 3.0	350	< 0.20	< 20.0	1.2 J	**5.3**	0.14 J	< 5.0	6.4 J	6.8 J	< 10,000	**10,000**	220	760	150	5,900
		2005 02 (Summer)	0.71 J	5.1	**730**	< 2.0	0.42 J	3.3 J	2.7	< 10.0	< 3.0	310	**0.24**	< 20.0	1.8 J	< 5.0	< 5.0	< 5.0	5.9 J	**13.0 J**	**110**	**6,500**	180	610	140	5,300
		2004 04 (Winter)	0.30 J	< 5.0	**640**	< 2.0	< 5.0	**4.9 J**	2.5	**5.1 J**	0.31 J	230	< 0.20	0.27 J	**8.0 J**	< 5.0 UJ	< 5.0	< 5.0	8.4 J	**14.0 J**	4.6 J	**5,300**	210	720	170	5,900
		2004 02 (Summer)	0.50 J	< 5.0	**660**	0.31 J	< 5.0	**4.3 J**	2.5	< 10.0	0.12 J	290	< 0.20	< 20.0	1.6 J	< 5.0	< 5.0	< 1.0	6.5 J	**18.0 J**	< 50.0	**4,000**	230	700	160	5,800
		2003 04 (Winter)	< 5.0 UJ	< 50.0	**581**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	248	-	< 50.0	< 20.0	**5.3 J**	< 10.0	-	**10.4 J**	< 20.0	< 200	**3,050**	168	564	184	5,520
		2003 02 (Summer)	< 50.0	< 50.0	**648 J**	< 4.0	< 5.0	**5.1 J**	< 10.0	< 10.0	< 10.0	334 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 50.0	6.0 J	< 20.0	< 200	**4,620 J**	195	608	176 J	3,900 J
		2002 04 (Winter)	< 50.0	< 5.0	**500**	0.027 J	< 50.0 UJ	**4.8 J**	2.2 J	2.5 J	0.37 J	210	< 0.20	< 200	5.0 J	< 5.0	< 50.0	< 2.0	7.2 J	< 20.0	< 1,000	**3,000**	160	520	130	4,400
		2002 02 (Summer)	0.19 J	0.34 J	**510 J**	< 2.0	< 5.0	**12.0**	2.0 J	2.4 J	0.12 J	230	< 0.20	< 20.0	3.3 J	< 5.0	0.59 J	< 2.0	**8.9 J**	< 20.0	5.2 J	**5,100**	140	520	120	4,500
	PW-12	2006 01 (Spring)	< 1.0	2.6 J	**790**	< 200	1.1 J	1.9 J	2.4	2.1 J	< 3.0	910	< 0.20	< 20.0	4.0 J	< 5.0	< 5.0	< 5.0	4.5 J	**13.0 J**	< 10,000	**5,700**	230	430	75.0	2,800
		2005 02 (Summer)	1.3	**150 J**	**1,600**	< 2.0	< 5.0	**3.5 J**	2.5	< 10.0	< 3.0	390	< 0.20	1.5 J	< 20.0	< 500	< 5.0	0.13 J	**9.9 J**	**18.0 J**	< 100	1,200	330	960	220	7,300
		2004 04 (Winter)	0.35 J	< 5.0	**1,400**	< 2.0	< 5.0	**8.4 J**	3.1	**11.0**	0.28 J	380	0.047 J	0.46 J	**15.0 J**	< 5.0 UJ	< 5.0	< 5.0	**12.0**	**22.0**	4.5 J	**4,200**	**440**	1,300	300	9,800
		2004 02 (Summer)	0.44 J	< 1.0	**1,700**	< 1.0	**3.9 J**	**15.0**	3.7	**11.0**	0.24 J	410	**0.28**	< 20.0	**17.0**	< 1.0	< 5.0	< 1.0	**17.0**	< 1.0	5.0 J	1,100	**440**	1,400	300	10,000
		2003 04 (Winter)	< 25.0 UJ	< 50.0	**1,390**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	328	**0.22 J**	< 50.0	< 20.0	< 20.0	< 10.0	-	**14.2 J**	< 20.0	< 200	1,340	348	1,330	405	10,700
		2003 02 (Summer)	< 50.0	< 50.0	**1,830 J**	< 4.0	< 5.0	**5.6 J**	2.1 J	< 10.0	< 10.0	437 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	8.1 J	< 20.0	< 200	**1,820 J**	**411**	1,300	331 J	8,130 J
		2002 04 (Winter)	0.27 J	< 5.0	< 880 UJ	< 2.0	< 5.0	**7.1 J**	2.8 J	4.8 J	0.15 J	370	< 0.20	0.39 J	6.9 J	< 5.0 UJ	< 5.0	< 2.0	**13.0**	< 20.0	5.4 J	**2,900 J**	260	720	160	5,500
		2002 02 (Summer)	0.18 J	< 5.0	**1,200 J**	< 2.0	< 5.0	**18.0**	3.0 J	5.3 J	0.055 J	430	0.062 J	< 20.0	4.8 J	< 5.0	1.1 J	< 2.0	**13.0**	< 20.0	< 100	**3,200**	**400**	1,200	250	8,800
	S-16	2002 02 (Summer)	0.27 J	< 5.0	**610**	< 2.0	0.079 J	**17.0**	3.4 J	6.7 J	0.041 J	**2,100**	**0.11 J**	< 20.0	7.3 J	< 5.0	**15.0**	< 2.0	**14.0**	< 20.0	6.6 J	**5,300**	**580**	1,300	280	9,400
	S-16R	2006 01 (Spring)	0.42 J	**11.0**	**580**	**22.0 J**	**2.5 J**	**5.6 J**	1.7	< 10.0	< 3.0	**2,800**	< 0.20	< 20.0	1.2 J	< 5.0	0.20 J	< 5.0	**14.0**	6.1 J	< 10,000	**6,900**	**530**	1,600	350	11,000
		2005 02 (Summer)	1.2	**30.0**	**500**	< 2.0	1.2 J	**9.0 J**	3.7	< 10.0	< 3.0	**2,800**	< 0.20	< 20.0	7.3 J	< 5.0	< 5.0	< 5.0	**11.0**	**20.0 J**	**140 J**	**8,500**	**450**	1,200	320	9,200
		2004 04 (Winter)	0.67 J	< 5.0	**610**	< 2.0	< 5.0	**5.2 J**	**5.2**	**16.0**	0.37 J	**3,300**	< 0.20	1.7 J	**23.0**	< 5.0 UJ	< 5.0	< 5.0	**12.0**	**23.0**	7.0 J	**14,000**	**490**	1,400	300	9,900

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Innovative Technical Solutions, Inc.

Table 13-5

Groundwater Sample Analytical Results at IR Site 25 Group: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
	Well Number	Event AWQC:	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	S-35	2004 02 (Summer)	0.41 J	3.2	69.0	< 1.0	< 5.0	1.2	0.25 J	2.3	0.94 J	82.0	0.084 J	< 20.0	3.9	< 1.0	< 5.0	< 1.0	4.6	7.4	< 50.0	< 100	84.0	36.0	14.0	130
		2003 04 (Winter)	< 5.0 UJ	< 50.0	86.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	109	-	< 50.0	< 20.0	< 20.0	< 10.0	-	7.3 J	< 20.0	< 200	587	25.6	18.9	16.2	504
		2003 02 (Summer)	< 50.0	**9.1 J**	**128 J**	< 4.0	< 5.0	< 10.0	< 10.0	2.4 J	< 10.0	73.7 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.4 J	3.4 J	< 200	1,210 J	51.6	36.2	27.5 J	359 J
		2002 04 (Winter)	< 50.0	**9.9**	**170**	< 2.0	< 5.0	< 10.0	1.0 J	2.7 J	0.054 J	150	< 0.20	3.8 J	7.3 J	< 5.0	< 5.0	< 2.0	**9.1 J**	4.3 J	< 100	640	32.0	35.0	18.0	620
		2002 02 (Summer)	0.37 J	**14.0**	58.0	< 2.0	< 5.0	< 10.0	0.75 J	3.1 J	0.13 J	80.0	0.071 J	3.0 J	4.7 J	1.3 J	< 5.0	0.068 J	**10.0 J**	4.5 J	< 100	180	36.0	17.0	11.0	400
	S-35R	2004 04 (Winter)	0.24 J	< 5.0	**610**	< 2.0	< 5.0	2.2 J	2.2	**3.8 J**	0.45 J	430	< 0.20	1.0 J	**7.6 J**	< 5.0 UJ	< 5.0	< 5.0	4.4 J	8.1 J	3.4 J	**12,000**	120	360	79.0	3,100
		2004 02 (Summer)	0.32 J	**11.0**	**350**	< 2.0	< 5.0	< 10.0	1.8	< 10.0	0.20 J	610	0.075 J	< 20.0	4.2 J	< 5.0	< 5.0	< 1.0	< 10.0	**22.0**	< 50.0	**4,300**	93.0	200	41.0	1,900
	S-35R-2	2006 01 (Spring)	< 1.0	**8.1**	**420**	0.36 J	0.94 J	< 10.0	0.66 J	0.61 J	< 3.0	380	< 0.20	< 20.0	0.94 J	< 5.0	< 5.0	< 5.0	3.3 J	2.2 J	< 100	**6,200**	93.0	170	42.0	1,500
		2005 02 (Summer)	0.38 J	< 500	**640**	< 2.0	< 5.0	< 10.0	1.6	< 10.0	< 3.0	740	< 0.20	< 20.0	1.7 J	< 5.0	< 5.0	**4.6 J**	< 10.0	**14.0 J**	**110 J**	**8,400**	75.0	230	60.0	2,300
SWBZ	D-02	2004 04 (Winter)	0.068 J	**46.0**	**2,500**	< 2.0	< 5.0	0.74 J	1.3	3.1 J	0.24 J	**20,000**	< 0.20	0.60 J	7.4 J	< 5.0 UJ	< 5.0	< 5.0	0.88 J	9.5 J	3.0 J	**22,000**	**610**	430	17.0	1,300
		2004 02 (Summer)	< 1.0	**58.0**	**2,400**	< 2.0	< 5.0	1.9 J	0.95 J	< 10.0	0.61 J	**20,000**	< 0.20	< 20.0	2.8 J	**4.9 J**	< 5.0	< 1.0	< 10.0	< 26.0	< 50.0	**21,000**	**510**	390	18.0	1,300
		2003 04 (Winter)	< 5.0 UJ	**59.8**	**2,120**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0 UJ	**18,200**	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 10.0 UJ	< 50.0	< 20.0	< 200	**20,500**	**443**	357	17.4	1,220
		2003 02 (Summer)	< 50.0	**71.8**	**2,460**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	**19,600**	< 0.40 UJ	< 50.0	2.8 J	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	**24,400**	**495**	390	18.8 J	1,110
		2002 04 (Winter)	0.054 J	**57.0**	**2,000**	< 2.0	< 5.0	< 10.0	0.98 J	1.5 J	0.068 J	**16,000**	< 0.20	0.57 J	3.6 J	**11.0**	< 5.0	< 2.0	< 10.0	< 20.0	< 100	**19,000**	**390**	300	17.0	1,000
		2002 02 (Summer)	< 50.0	**53.0**	**2,200**	**1.4 J**	< 5.0	**7.5 J**	< 10.0	< 10.0	< 3.0	**18,000**	< 0.20	< 20.0	< 20.0	**12.0**	< 5.0	< 2.0 UJ	< 10.0	< 20.0	< 100 UJ	**20,000**	**460**	360	16.0	1,200
	D-02R	2006 01 (Spring)	< 1.0	**79.0**	**1,300**	< 2.0	< 5.0	< 10.0	**4.7**	2.9 J	< 3.0	**5,300**	< 0.20	< 20.0	**11.0 J**	**8.4**	< 5.0	< 5.0	< 10.0	**11.0 J**	< 100	**18,000**	260	460	67.0	2,400
		2005 02 (Summer)	0.25 J	**74.0**	**1,100**	< 2.0	< 5.0	< 10.0	4.6	< 10.0	< 3.0	**4,600**	< 0.20	< 20.0	5.2 J	< 5.0	< 5.0	< 5.0	< 10.0	**23.0**	92.0 J	**12,000**	190	350	51.0	1,800

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

Innovative Technical Solutions, Inc.

Table 13-6
Groundwater Sampling Field Parameters at IR Site 25 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M25-01	05/02/06	6.90	1.01	-209
		09/13/05	6.70	0.36	-209
		03/17/05	6.94	0.05	-202
		11/19/04	6.54	0.18	65
		06/25/04	7.31	4.70	-108
		03/09/04	6.70	0.16	213
		12/08/03	6.61	0.21	-2.0
		09/22/03	6.72	0.15	-81
		07/03/03	6.65	0.11	-193
		04/16/03	6.60	0.19	-116
		12/30/02	6.08	***37.98***	-152.1
		09/11/02	6.78	0.70	-161.2
First	M25-02	05/02/06	6.64	0.77	-299
		09/13/05	6.99	0.85	-298
		03/21/05	6.11	0.28	-233
		11/19/04	6.41	0.32	-50
		06/25/04	6.95	3.50	-126
		03/08/04	6.52	0.15	30
		12/08/03	6.48	0.13	-62
		09/19/03	6.45	0.13	-88
		07/07/03	6.68	0.17	-147
		04/16/03	6.40	0.19	-6.0
		12/26/02	7.30	0.00	-145
		09/12/02	6.52	1.00	-119.3
First	M25-04	05/02/06	6.18	1.17	-36
		09/13/05	6.78	0.98	-29
		03/21/05	6.07	3.20	5.0
		11/19/04	6.14	0.42	184
		06/25/04	6.47	5.90	134
		03/08/04	6.48	0.64	35
		12/12/03	6.74	0.20	269
		09/19/03	6.60	0.22	81
		07/03/03	6.62	0.20	-210
		04/16/03	6.30	0.22	176
		12/19/02	***8.65***	0.00	-112
		09/11/02	6.60	3.40	-53.4
First	M25-05	05/02/06	6.74	2.02	-313
		09/12/05	7.35	0.68	-201
		03/21/05	6.85	3.50	-243
		11/19/04	6.71	0.22	-10
		06/25/04	7.33	2.70	-100
		03/09/04	6.74	0.34	36
		12/11/03	6.67	0.17	-190.3
		09/23/03	6.64	0.23	-161
		07/03/03	6.68	0.15	-86
		04/21/03	6.54	0.26	-78
		12/20/02	6.70	0.00	-117

Table 13-6
Groundwater Sampling Field Parameters at IR Site 25 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	M25-05	09/11/02	6.61	4.10	-206
First	M25-06	05/02/06	6.78	0.5	-195
		09/14/05	7.35	0.80	-213
		03/22/05	6.26	***10.06***	-217
		11/19/04	6.56	0.62	62
		06/28/04	7.50	3.60	-21
First	M25-07	05/02/06	6.94	1.01	-158
		09/13/05	6.75	3.62	-190
		03/17/05	6.97	0.14	-179
		11/19/04	6.55	0.20	54
		06/28/04	7.53	3.20	-27
First	M25-08	05/03/06	6.66	0.43	-243
		09/13/05	7.33	0.76	-206
		03/21/05	6.34	***13.36***	-201
		11/19/04	6.52	0.19	43
		06/28/04	7.35	3.40	-72
First	M25-09	05/03/06	6.15	0.73	-188
		09/14/05	6.74	0.90	-162
		03/17/05	6.38	0.12	-172
		11/19/04	6.05	1.20	7.0
		06/28/04	6.80	3.30	-66
First	P181-MW45	05/02/06	6.62	0.29	-134
		09/14/05	7.18	0.85	-179
		03/17/05	6.92	3.22	-195
		11/19/04	6.36	0.33	-5.0
		06/28/04	7.15	2.30	-217
		03/08/04	6.68	0.13	38
		12/11/03	6.56	0.20	-76
		09/19/03	6.57	0.21	-73
		07/03/03	6.60	0.15	-106
		04/17/03	6.50	0.32	-42
		12/19/02	6.35	***13.49***	-89.5
		09/11/02	6.57	0.90	-140.6
		06/24/02	6.49	4.30	-119.5
First	P181-MW46	05/02/06	6.39	0.08	-217
		09/14/05	7.07	0.96	-210
		03/21/05	6.17	3.79	-207
		11/19/04	6.31	0.32	-10
		06/30/04	7.07	2.40	30
		03/08/04	6.60	0.17	51
		12/11/03	6.51	0.20	-145.8
		09/19/03	6.52	0.20	-12
		07/03/03	6.60	0.19	-9.0
		04/17/03	6.47	0.23	54
		12/19/02	6.07	4.66	-135.1
		09/11/02	6.62	0.90	-90.1
		06/24/02	6.40	***16.28***	-86.5

Table 13-6
Groundwater Sampling Field Parameters at IR Site 25 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	P181-MW47	05/03/06	6.84	2.26	-259
		09/12/05	7.12	0.67	-176
		03/21/05	6.18	4.30	-166
		11/19/04	6.59	0.20	64
		06/30/04	7.20	3.30	66
		03/08/04	6.67	0.18	79
		12/11/03	6.55	0.19	-157.7
		09/19/03	6.54	0.16	-40
		07/03/03	6.64	0.27	-6.0
		04/17/03	6.50	0.26	55
		12/19/02	6.04	7.61	-137.8
		09/11/02	6.73	1.20	-84.2
		06/24/02	6.44	***10.27***	-77.9
First	PW-12	05/03/06	6.41	0.37	-143
		09/13/05	6.69	0.00	-267
		03/21/05	6.68	0.04	-57
		11/19/04	6.53	0.14	2.0
		06/29/04	7.45	2.90	-56
		03/08/04	6.76	0.12	35
		12/11/03	6.84	0.18	47
		09/22/03	6.75	0.30	-17
		07/03/03	6.76	0.14	-234
		04/16/03	6.42	0.28	166
		12/20/02	6.68	0.00	-161
		09/12/02	6.90	1.30	-95.5
		06/24/02	6.64	0.35	-60.6
First	S-16R	05/03/06	6.78	2.60	-216
		09/13/05	7.25	3.03	-165
		03/17/05	6.95	4.77	-202
		11/19/04	6.67	0.33	4.0
First	S16-2	06/29/04	7.39	***24.10***	-107
		03/08/04	6.75	1.88	74
		12/19/03	6.59	1.68	17
		09/23/03	6.59	0.32	-134
First	S-16	06/25/02	6.56	1.14	-321
First	S-35R-2	05/02/06	6.5	0.48	-219
		09/12/05	7.39	0.88	-171
		03/17/05	7.11	0.00	-182
First	S-35R	11/19/04	6.61	0.40	-14
		06/29/04	7.35	2.60	-27
First	S-35	06/29/04	7.25	***14.40***	184
		03/08/04	6.96	4.14	232
		12/11/03	7.21	0.44	18
		09/22/03	7.18	0.18	-60
		07/03/03	7.03	NM	26
		04/17/03	7.01	0.91	94
		12/26/02	7.48	0.15	-117

Table 13-6
Groundwater Sampling Field Parameters at IR Site 25 Group
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	S-35	09/11/02	7.04	4.10	-114
		06/25/02	7.03	***34.00***	52.2
Second	D-02R	05/08/06	6.87	1.30	-183
Second	D-02	03/21/05	6.35	5.71	-178
		11/19/04	6.75	0.22	-6.0
		06/25/04	7.30	3.60	-59
		03/08/04	6.78	0.27	1.09
		12/08/03	6.66	0.19	11
		09/22/03	6.68	0.19	-81
		07/02/03	6.93	0.16	-142
		04/16/03	6.77	2.94	-1.0
		12/27/02	7.17	4.25	-144
		09/11/02	6.63	2.90	-149
		07/16/02	6.71	***-0.02***	-138.2

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts
NM = not measured

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 13-7
Groundwater Sample Analytical Results at IR Site 25 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	M25-01	2006 01 (Spring)	< 0.0050	< 0.0050	**14.0**	< 1.0	< 1.3	**12,000**	**1.9 J**	**710**	**710**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**12.0**	< 1.0	< 2.5	**15,000**	**2.4 J**	**3,400**	**3,400**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**13.0**	< 1.3	< 2.5	**14,000**	**6.3 J**	**2,100**	**2,100**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**15.0**	< 1.3	< 2.5	**14,000**	**10.0 J**	**3,300**	**3,300**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**6.8**	**10.5**	< 50.0	**14,300**	**9.2**	**3,420**	**3,420**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**3.8**	< 1.0 UJ	-	**14,600**	**20.1**	**2,880**	-	-	-	**2.8**
	M25-02	2006 01 (Spring)	< 0.0050	< 0.0050	**16.0**	< 0.10	< 0.25	**1,600**	**55.0**	**710**	**710**	< 1.0	< 1.0	**9.7**
		2005 02 (Summer)	< 0.0050	< 0.0050	**13.0**	< 0.10	< 0.20	**1,800**	**230**	**940**	**940**	< 1.0	< 1.0	**8.4**
		2004 04 (Winter)	< 0.0050	< 0.0050	**15.0**	< 0.25	< 0.25	**2,000**	**77.0**	**1,000**	**1,000**	< 1.0	< 1.0	**5.3**
		2004 02 (Summer)	< 0.010	< 0.010	**17.0**	< 0.25	< 0.25	**2,100**	**180**	**890**	**890**	< 1.0	< 1.0	**6.0**
		2003 04 (Winter)	< 0.0030	< 0.0030	**5.9**	**1.9**	< 1.0	**2,080**	**23.7**	**890**	**890**	< 5.0	-	**2.8**
		2003 02 (Summer)	< 0.0030	< 0.0030	**5.8**	< 1.0	< 10.0	**2,880**	**64.7**	**957**	-	-	-	**1.7**
	M25-04	2006 01 (Spring)	< 0.0050	< 0.0050	**2.3**	**0.20**	< 0.050	**18.0**	**20.0**	**140**	**140**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**8.3**	< 0.050	< 0.050	**28.0**	**39.0**	**130**	**130**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.93**	**2.2**	< 0.050	**49.0**	**52.0**	**180**	**180**	< 1.0	< 1.0	**0.060**
		2004 02 (Summer)	< 0.010	< 0.010	**0.19**	**0.38**	< 0.050	**37.0**	**40.0**	**180**	**180**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**1.6**	< 1.0	< 1.0	**58.7**	**29.8**	**188**	**188**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.47**	**0.31**	< 0.20	**36.5**	**27.2**	**134**	-	-	-	< 1.0
	M25-05	2006 01 (Spring)	< 0.0050	< 0.0050	**11.0**	< 1.0	< 1.3	**11,000**	**100**	**2,000**	**2,000**	< 1.0	< 1.0	**1.3**
		2005 02 (Summer)	< 0.0050	< 0.0050	**12.0**	< 1.0	< 1.3	**12,000**	**190**	**3,100**	**3,100**	< 1.0	< 1.0	**0.92**
		2004 04 (Winter)	< 0.0050	< 0.0050	**11.0**	< 1.3	< 2.5	**16,000**	**180**	**2,200**	**2,200**	< 1.0	< 1.0	**0.50**
		2004 02 (Summer)	< 0.010	< 0.010	**12.0**	< 1.3	< 2.5	**15,000**	**260**	**2,100**	**2,100**	< 1.0	< 1.0	**0.58**
		2003 04 (Winter)	< 0.0030	< 0.0030	**2.2**	-	-	**13,500**	**404**	**3,090**	**3,090**	< 5.0	-	**3.4**
		2003 02 (Summer)	< 0.0030	< 0.0030	**3.7**	< 1.0 UJ	-	**16,200**	**626**	**2,730**	-	-	-	**4.1**
	M25-09	2006 01 (Spring)	< 0.0050	< 0.0050	**2.6**	< 0.050	< 0.10	**900**	**180**	**530**	**530**	< 1.0	< 1.0	**0.090**
		2005 02 (Summer)	< 0.0050	< 0.0050	**8.9**	< 0.10	< 0.20	**1,800**	**130**	**740**	**740**	< 1.0	< 1.0	**0.12**
		2004 04 (Winter)	< 0.0050	< 0.0050	**8.8**	< 0.050	< 0.10	**930**	**82.0**	**560**	**560**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**12.0**	< 0.25	< 0.25	**2,100**	**27.0**	**720**	**720**	< 1.0	< 1.0	< 0.040
	P181-MW45	2006 01 (Spring)	< 0.0050	< 0.0050	**16.0**	< 1.0	< 1.3	**12,000**	< 10.0	**1,700**	**1,700**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**9.8**	< 1.0	< 2.5	**14,000**	< 10.0	**3,000**	**3,000**	< 1.0	< 1.0	**0.090**
		2004 04 (Winter)	< 0.0050	< 0.0050	**16.0**	< 1.3	< 2.5	**15,000**	< 13.0	**2,200**	**2,200**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**13.0**	< 1.3	< 2.5	**14,000**	< 13.0	**2,900**	**2,900**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**3.6**	-	-	**12,700**	< 5.0	**3,070**	**3,070**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**3.4**	< 1.0 UJ	-	**16,800**	< 1.0	**3,900**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**7.9**	< 1.3	< 2.5	**15,000**	< 13.0	**3,100**	**3,100**	< 1.0	< 1.0	**0.070**
		2002 02 (Summer)	< 0.010	< 0.010	**13.0**	< 0.50	< 0.50	**14,000**	< 5.0	**2,900**	**2,900**	< 1.0	< 1.0	**0.070**
	P181-MW46	2006 01 (Spring)	< 0.0050	< 0.0050	**15.0**	< 0.25	< 0.50	**4,400**	**20.0**	**1,200**	**1,200**	< 1.0	< 1.0	**1.0**
		2005 02 (Summer)	< 0.0050	< 0.0050	**13.0**	< 0.25	< 0.50	**4,600**	**31.0**	**1,200**	**1,200**	< 1.0	< 1.0	**2.5**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

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Table 13-7
Groundwater Sample Analytical Results at IR Site 25 Group: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Dissolved Gases			Anions					Alkalinity					Sulfide
				Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)		Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide		Sulfide
			Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L	MG/L		MG/L
			MCL:	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA		NA
			BV:	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA		NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA		NA
FWBZ	P181-MW46	2004 04 (Winter)		< 0.0050	< 0.0050	**16.0**	< 0.50	< 0.50	**4,800**	**66.0**		**1,400**	**1,400**	< 1.0	< 1.0		**2.2**
		2004 02 (Summer)		< 0.010	< 0.010	**18.0**	< 0.25	< 0.50	**5,000**	**32.0**		**1,400**	**1,400**	< 1.0	< 1.0		**1.3**
		2003 04 (Winter)		< 0.0030	< 0.0030	**2.3**	-	-	**3,840**	**17.7**		**1,450**	**1,450**	< 5.0	-		< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**6.3**	< 1.0 UJ	-	**5,140**	**42.4**		**1,220**	-	-	-		**2.5**
		2002 04 (Winter)		< 0.010	< 0.010	**5.7**	< 0.50	< 1.3	**9,600**	**0.92 J**		**2,300**	**2,300**	< 1.0	< 1.0		< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	**14.0**	< 0.50	< 0.50	**5,500**	**110**		**1,400**	**1,400**	< 1.0	< 1.0		**0.42**
	P181-MW47	2006 01 (Spring)		< 0.0050	< 0.0050	**14.0**	< 0.50	< 1.0	**9,200**	**23.0**		**2,100**	**2,100**	< 1.0	< 1.0		**0.060**
		2005 02 (Summer)		< 0.0050	< 0.0050	**11.0**	< 1.0	< 1.3	**10,000**	< 10.0		**2,500**	**2,500**	< 1.0	< 1.0		**0.050**
		2004 04 (Winter)		< 0.0050	< 0.0050	**13.0**	< 1.0	< 1.0	**9,800**	< 10.0		**2,200**	**2,200**	< 1.0	< 1.0		**0.050**
		2004 02 (Summer)		< 0.010	< 0.010	**16.0**	< 0.50	< 1.3	**9,400**	**6.3**		**2,200**	**2,200**	< 1.0	< 1.0		**0.040**
		2003 04 (Winter)		< 0.0030	< 0.0030	**4.1**	-	-	**8,380**	**3.0 J**		**1,800**	**1,800**	< 5.0	-		< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**4.2**	< 1.0 UJ	-	**9,960**	**5.5**		**1,790**	-	-	-		< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	**10.0**	< 0.50	< 1.3	**9,300**	**6.7**		**2,000**	**2,000**	< 1.0	< 1.0		**0.41**
		2002 02 (Summer)		< 0.010	< 0.010	**12.0**	< 0.50	< 0.50	**7,900**	**6.8**		**2,200**	**2,200**	< 1.0	< 1.0		**0.37**
	PW-12	2006 01 (Spring)		< 0.0050	< 0.0050	**10.0**	< 0.25	< 0.50	**2,900**	**140**		**840**	**840**	< 1.0	< 1.0		**0.050**
		2005 02 (Summer)		< 0.0050	< 0.0050	**8.1**	< 1.0	< 2.5	**15,000**	**570**		**3,400**	**3,400**	< 1.0	< 1.0		**1.8**
		2004 04 (Winter)		< 0.0050	< 0.0050	**6.4**	< 1.3	< 2.5	**18,000**	**300**		**3,600**	**3,600**	< 1.0	< 1.0		**0.71**
		2004 02 (Summer)		< 0.010	< 0.010	**13.0**	< 1.3	< 2.5	**18,000**	**56.0**		**3,700**	**3,700**	< 1.0	< 1.0		**0.17**
		2003 04 (Winter)		< 0.0030	< 0.0030	**3.0**	-	-	**13,600**	**203**		**4,280**	**4,280**	< 5.0	-		< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**4.0**	< 1.0 UJ	-	**18,200**	**37.5**		**3,200**	-	-	-		**2.5**
		2002 04 (Winter)		< 0.010	< 0.010	**7.4**	< 1.3	< 1.3	**12,000**	**91.0**		**1,900**	**1,900**	< 1.0	< 1.0		**2.1**
		2002 02 (Summer)		< 0.010	< 0.010	**6.5**	< 0.50	< 0.50	**17,000**	**370**		**3,600**	**3,600**	< 1.0	< 1.0		**0.15**
	S-16	2002 02 (Summer)		< 0.010	< 0.010	**2.9 J**	< 0.50	< 0.50	**18,000**	**54.0**		**3,600**	**3,600**	< 1.0	< 1.0		**5.3**
	S-16R	2006 01 (Spring)		< 0.0050	< 0.0050	**3.6**	< 1.0	< 2.5	**19,000**	**47.0**		**3,600**	**3,600**	< 1.0	< 1.0		**0.090**
		2005 02 (Summer)		< 0.0050	< 0.0050	**4.0**	< 1.0	< 2.5	**20,000**	**260**		**3,700**	**3,700**	< 1.0	< 1.0		< 0.040
		2004 04 (Winter)		< 0.0050	< 0.0050	**6.2**	< 1.3	< 2.5	**21,000**	**210**		**3,100**	**3,100**	< 1.0	< 1.0		< 0.040
	S-35	2004 02 (Summer)		< 0.010	< 0.010	**0.026**	**0.48**	< 0.050	**100**	**56.0**		**340**	**340**	< 1.0	< 1.0		< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**1.7**	-	-	**289**	**17.9**		**608**	**608**	< 5.0	-		< 1.0
		2003 02 (Summer)		< 0.0030	< 0.0030	**2.7**	**0.66 J**	< 1.0 UJ	**742**	**16.1**		**620**	-	-	-		< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	**2.7**	< 0.10	< 0.10	**580**	**2.1**		**710**	**710**	< 1.0	< 1.0		< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	**3.4 J**	**0.19**	< 0.050	**200**	**13.0**		**540**	**540**	< 1.0	< 1.0		**0.060**
	S-35R	2004 04 (Winter)		< 0.0050	< 0.0050	**13.0**	< 1.0	< 1.0	**6,900**	**5.6 J**		**1,400**	**1,400**	< 1.0	< 1.0		< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	**13.0**	**0.12 J**	< 0.25	**2,100**	**23.0**		**800**	**800**	< 1.0	< 1.0		< 0.040
	S-35R-2	2006 01 (Spring)		< 0.0050	< 0.0050	**13.0**	< 0.10	< 0.25	**1,400**	**140**		**670**	**670**	< 1.0	< 1.0		**0.090**
		2005 02 (Summer)		< 0.0050	< 0.0050	**15.0**	< 0.25	< 0.50	**4,700**	**4.1**		**1,500**	**1,500**	< 1.0	< 1.0		< 0.040
SWBZ	D-02	2004 04 (Winter)		< 0.0050	< 0.0050	**22.0**	< 0.25	< 0.50	**3,500**	< 2.5		**890**	**890**	< 1.0	< 1.0		< 0.040
		2004 02 (Summer)		< 0.010	< 0.010	**23.0**	< 0.25	< 0.50	**3,400**	< 2.5		**870**	**870**	< 1.0	< 1.0		< 0.040
		2003 04 (Winter)		< 0.0030	< 0.0030	**6.1**	< 1.0	< 1.0	**3,280**	< 5.0		**900**	**900**	< 5.0	-		< 1.0

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-7

Groundwater Sample Analytical Results at IR Site 25 Group: Natural Attenuation Parameters

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Dissolved Gases			Anions				Alkalinity					Sulfide
				Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide		Sulfide
			Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L
			MCL:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**		**NA**
			BV:	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**		**NA**
	Well Number	**Event**	**AWQC:**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**		**NA**
SWBZ	D-02	2003 02 (Summer)		< 0.0030	< 0.0030	**5.9**	< 1.0	< 10.0 UJ	**3,790**	< 5.0	**825**	-	-	-		< 1.0
		2002 04 (Winter)		< 0.010	< 0.010	**16.0**	< 0.50	< 0.50	**3,100**	< 5.0	**880**	**880**	< 1.0	< 1.0		< 0.040
		2002 02 (Summer)		< 0.010	< 0.010	**29.0**	< 0.25	< 0.25	**3,300**	< 2.5	**920**	**920**	< 1.0	< 1.0		< 0.040
	D-02R	2006 01 (Spring)		< 0.050	< 0.050	**21.0**	< 0.25	< 0.50	**4,300**	< 2.5	**1,400**	**1,400**	< 1.0	< 1.0		< 0.040
		2005 02 (Summer)		< 0.0050	**0.0030 J**	**20.0**	< 0.25	< 0.50	**4,600**	**0.31 J**	**1,500**	**1,500**	< 1.0	< 1.0		< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-8
Soil Gas Analytical Results at IR Site 25 Group: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	**Event AWQC:**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	OU5-SG-16D	2006 01 (Spring)	**4.9**	< 0.013	< 0.0013	< 0.0013	**0.41**	**77.0**	**18.0**	< 0.67	**0.84**	< 0.67	**1.6 J**	< 6.7 UJ	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67 UJ	< 0.67	< 0.67
		2005 02 (Summer)	**0.099**	< 0.013	< 0.0013	< 0.0013	**0.0003**	**78.0**	**22.0**	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2002 03 (Fall)	**0.94**	< 0.0029	< 0.0014	< 0.0014	**0.0024**	-	**31.0**	**0.59**	**2.3**	**0.27 J**	**1.6**	**0.76 J**	**0.52 J**	< 0.40	**0.19 J**	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
	OU5-SG-16S	2006 01 (Spring)	**7.8**	< 0.014	< 0.0014	< 0.0014	< 0.0001	**80.0**	**12.0**	< 0.70	< 0.70	< 0.70	**1.6 J**	< 7.0 UJ	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70
		2005 02 (Summer)	**10.0**	< 0.013	< 0.0013	< 0.0013	**0.085**	**80.0**	**9.3**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	**3.4**	< 0.014	< 0.0014	< 0.0014	< 0.0001	**80.0**	**16.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 01 (Spring)	-	-	-	-	-	-	-	< 0.20	**0.30**	**0.12 J**	**0.85**	**20.0**	< 1.0	**0.11 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.088 J**	< 0.20
		2003 04 (Winter)	**2.2**	< 0.0019	< 0.0009	< 0.0009	< 0.0003	-	**19.0**	**0.23**	**0.67**	**0.18 J**	**1.0**	**1.2**	< 1.0 UJ	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.083 J**	< 0.20
		2003 03 (Fall)	**6.5**	< 0.0010	< 0.0010	< 0.0010	**0.0006**	-	**17.0**	< 1.0	< 1.0	< 1.0	< 1.0	**10.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 1.0	**2.0**	< 1.0	**6.0**	**189**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2002 04 (Winter)	**0.66**	< 0.0018	< 0.0008	< 0.0008	**0.0001 J**	-	**22.0**	**0.37**	**1.1**	**0.11 J**	**0.54**	**4.4**	**0.16 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2002 03 (Fall)	**0.11**	< 0.0017	< 0.0008	< 0.0008	**0.0002 J**	-	**23.0**	**1.1**	**8.6**	**1.3**	**9.4**	< 0.50 UJ	**11.0**	< 0.20	**0.27**	**0.42**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	OU5-SG-17D	2006 01 (Spring)	**8.6**	< 0.014	< 0.0014	< 0.0014	**0.0059**	**77.0**	**14.0**	< 0.70	< 0.70	< 0.70	**0.90 J**	< 7.0 UJ	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70
		2005 02 (Summer)	**5.2**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**17.0**	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.74	**1.2**	< 0.74	**0.86**	< 7.4	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
		2002 03 (Fall)	**1.5**	< 0.0018	< 0.0008	< 0.0008	**0.76**	-	**21.0**	**0.36**	**0.87**	**0.15 J**	**0.64**	< 0.50 UJ	**0.25 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	OU5-SG-17S	2006 01 (Spring)	**3.0**	< 0.014	< 0.0014	< 0.0014	< 0.0001	**78.0**	**19.0**	< 0.68	< 0.68	< 0.68	< 0.68	< 6.8 UJ	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68 UJ	< 0.68	< 0.68
		2005 02 (Summer)	**1.4**	< 0.013	< 0.0013	< 0.0013	**0.0001**	**78.0**	**21.0**	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2005 01 (Spring)	**3.1**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**76.0**	**20.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.80	**1.4**	< 0.80	**2.2**	< 8.0	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	-	-	-	-	-	-	-	**0.12 J**	**0.43**	**0.11 J**	**0.71**	**1.3**	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	**0.37**	**3.8**	**0.56**	**3.3**	**19.0**	< 1.0	**0.14 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	**5.3**	< 0.0017	< 0.0008	< 0.0008	< 0.0003	-	**79.0**	< 0.20	**0.35**	**0.10 J**	**0.54**	**0.65**	< 1.0 UJ	< 0.20	**0.11 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 03 (Fall)	**2.8**	< 0.0010	< 0.0010	< 0.0010	**0.0001**	-	**19.0**	< 1.0	**1.1**	< 1.0	**2.0**	**34.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 4.0	< 4.0	< 4.0	< 4.0	**319**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 01 (Spring)	**4.3**	< 0.0017	< 0.0008	< 0.0008	< 0.0003	-	**18.0**	< 0.20	**0.16 J**	< 0.20	< 0.50	**3.5 J**	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ
		2002 04 (Winter)	**3.9**	< 0.0016	< 0.0008	< 0.0008	< 0.0003	-	**17.0**	< 0.20	**0.22 J**	< 0.20	< 0.50	**13.0**	< 1.0	**0.23**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2002 03 (Fall)	**4.8**	< 0.0018	< 0.0008	< 0.0008	**0.0017**	-	**18.0**	< 0.20	**0.21 J**	< 0.20	< 0.50	< 0.50 UJ	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	OU5-SG-18D	2006 01 (Spring)	**3.6**	< 0.014	**0.0027**	< 0.0014	**5.4**	**90.0**	**1.3**	**9.1**	**750**	**270**	**1,200 J**	< 43.0 UJ	< 4.3	< 4.3	**91.0**	**31.0**	< 4.3	**11.0**	< 4.3	< 4.3	< 4.3 UJ	**13.0**	< 4.3
		2005 02 (Summer)	**6.1**	< 0.013	< 0.0013	< 0.0013	**2.9**	**90.0**	**1.4**	< 0.66	< 0.66	**1.0**	**2.6**	< 6.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.78	< 0.78	**0.89**	**3.4**	< 7.8	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
		2004 02 (Summer)	-	-	-	-	-	-	-	< 2.0	**2.0**	**2.4**	**6.3**	**1.5 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2004 01 (Spring)	-	-	-	-	-	-	-	< 2.1	< 3.2	**2.6**	**7.5**	**21.0**	< 11.0	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
		2003 04 (Winter)	**5.3**	< 0.0018	**0.0020**	< 0.0009	**17.0**	-	**1.3**	< 2.0	< 2.0	< 2.0	< 2.0	**1.1 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	**5.5**	< 0.0010	< 0.0010	< 0.0010	**3.3**	-	**2.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 23.0	< 23.0	< 23.0	< 23.0	**69.0 J**	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0
		2003 01 (Spring)	**4.8**	< 0.0014	< 0.0007	< 0.0007	**0.0036**	-	**15.0**	< 1.8	< 2.7	**1.5 J**	**6.4**	**7.2 J**	< 9.0	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8 UJ
		2002 03 (Fall)	**2.8**	< 0.0018	< 0.0008	**0.0005 J**	**1.9**	-	**17.0**	**0.71**	**2.4**	**2.4**	**8.6**	**0.41 J**	**0.72 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 13-8
Soil Gas Analytical Results at IR Site 25 Group: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	OU5-SG-18S	2006 01 (Spring)	**1.5**	< 0.014	< 0.0014	< 0.0014	**0.0003**	**79.0**	**19.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0 UJ	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70
		2005 02 (Summer)	**0.78**	< 0.013	< 0.0013	< 0.0013	**0.0003**	**78.0**	**21.0**	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2005 01 (Spring)	**0.89**	< 0.013	< 0.0013	< 0.0013	**0.0002**	**79.0**	**20.0**	< 0.67	**0.84**	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	< 0.79	**1.1**	< 0.79	**0.80**	< 7.9	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	-	-	-	-	-	-	-	**0.20**	**0.51**	**0.21**	**1.2**	**2.6**	< 1.0	< 0.20	**0.16 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	< 0.20	**0.71**	**0.30**	**1.7**	**16.0**	< 1.0	< 0.20	**0.094 J**	**0.35**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	**1.5**	< 0.0018	< 0.0009	< 0.0009	**0.0003**	-	**19.0**	< 0.22	**0.28 J**	**0.23**	**1.0**	**1.5**	< 1.1 UJ	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
		2003 03 (Fall)	**1.1**	< 0.0010	< 0.0010	< 0.0010	**0.0005**	-	**20.0**	< 4.0	< 4.0	< 4.0	< 4.0	**65.3**	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	**154**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	**2.0**	< 0.0015	< 0.0007	< 0.0007	< 0.0002	-	**20.0**	< 0.20	**1.6**	**0.18 J**	**1.0**	**10.0 J**	**0.39 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ
		2002 04 (Winter)	**2.2**	< 0.0017	< 0.0008	< 0.0008	< 0.0003 J	-	**18.0**	**0.11 J**	**1.6**	**0.11 J**	**0.61**	**9.9**	**0.11 J**	**0.14 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2002 03 (Fall)	**1.5**	< 0.0018	< 0.0008	< 0.0008	**0.0002 J**	-	**20.0**	< 0.20	< 0.30	< 0.20	< 0.50	**0.15 J**	**0.49 J**	< 0.20	< 0.20	**0.49**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	OU5-SG-19D	2006 01 (Spring)	**3.8**	< 0.015	< 0.0015	< 0.0015	**23.0**	**63.0**	**10.0**	< 0.73	< 0.73	< 0.73	< 0.73	< 7.3 UJ	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73 UJ	< 0.73	< 0.73
		2005 02 (Summer)	**4.1**	< 0.013	< 0.0013	< 0.0013	**46.0**	**46.0**	**2.9**	< 2.7	< 2.7	< 2.7	< 2.7	< 27.0	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7
		2004 04 (Winter)	-	-	-	-	-	-	-	**1.3**	**2.8**	< 0.74	**1.5**	< 7.4	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	-	-	-	-	-	-	-	**1.1 J**	**1.6 J**	**1.2 J**	**1.5 J**	**1.1 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 04 (Winter)	**3.5**	< 0.0018	< 0.0009	< 0.0009	**18.0**	-	**13.0**	< 2.0	< 2.0	< 2.0	< 2.0	**0.66 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2003 03 (Fall)	**1.7**	< 0.0010	< 0.0010	< 0.0010	**2.3**	-	**17.0**	< 5.0	< 5.0	< 5.0	< 5.0	**87.5**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2003 02 (Summer)	-	-	-	-	-	-	-	< 22.0	< 22.0	< 22.0	< 22.0	**67.0 J**	< 22.0	**26.0**	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0
		2003 01 (Spring)	**1.5**	< 0.0023	< 0.0012	< 0.0012	**22.0**	-	**16.0**	< 2.0	**2.5**	**1.2 J**	**3.8**	**1.7 J**	**1.6 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
		2002 04 (Winter)	**0.17**	< 0.0045	< 0.0022	< 0.0022	**1.3**	-	**21.0**	**0.52**	**3.3**	**0.64**	**3.0**	**12.0**	**0.55 J**	**6.1**	**0.21 J**	**0.21 J**	**0.39**	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
		2002 03 (Fall)	**0.98**	< 0.0017	< 0.0008	< 0.0008	**3.4**	-	**21.0**	**0.28**	**0.30**	**0.36 J**	**1.4 J**	< 0.50 UJ	**31.0**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	OU5-SG-19S	2006 01 (Spring)	**1.4**	< 0.014	< 0.0014	< 0.0014	**0.0002**	**80.0**	**19.0**	< 0.72	< 0.72	< 0.72	< 0.72	< 7.2 UJ	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72 UJ	< 0.72	< 0.72	< 0.72
		2005 02 (Summer)	-	-	-	-	-	-	-	< 0.70	**6.0**	**8.7**	**39.0**	< 7.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ
		2005 01 (Spring)	**3.3**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**18.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 6.7	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	-	-	-	-	-	-	-	**0.91**	**1.8**	< 0.80	**1.6**	< 8.0	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	-	-	-	-	-	-	-	**0.57**	**0.46**	**0.12 J**	**0.82**	**1.8**	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	< 0.20	**0.42**	**0.20**	**1.1**	**22.0**	< 1.0	**0.15 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
		2003 04 (Winter)	**5.0**	< 0.0019	< 0.0009	< 0.0009	**0.14**	-	**15.0**	< 19.0	< 19.0	< 19.0	< 19.0	< 47.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0	< 19.0
		2003 03 (Fall)	**0.58**	< 0.0010	< 0.0010	< 0.0010	**0.0004**	-	**21.0**	< 5.0	< 5.0	< 5.0	< 5.0	**67.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2003 02 (Summer)	-	-	-	-	-	-	-	**1.0**	**2.0**	< 1.0	**1.0**	**56.0 J**	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
		2003 01 (Spring)	**2.9**	< 0.0016	< 0.0007	< 0.0007	**0.0012**	-	**20.0**	< 0.20	**0.65 J**	**0.18 J**	**1.2 J**	**8.1 J**	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ
		2002 04 (Winter)	**1.9**	< 0.0018	< 0.0009	< 0.0009	**0.038**	-	**21.0**	< 0.45	**0.62 J**	< 0.45	**0.85 J**	**59.0**	< 2.2	**2.5**	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
		2002 03 (Fall)	**0.74**	< 0.0018	< 0.0009	< 0.0009	**0.48**	-	**23.0**	**0.20**	**0.47**	**0.15 J**	**0.76**	< 0.50 UJ	**15.0**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
	OU5-SG-20D	2004 04 (Winter)	-	-	-	-	-	-	-	**0.85**	**27.0**	< 0.70	**1.4**	< 7.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2003 03 (Fall)	**22.0**	< 0.0010	< 0.0010	< 0.0010	**60.0**	-	**1.0**	**1,750**	**804**	**1,020**	**947**	< 2,600	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2002 03 (Fall)	**5.2**	< 0.0017	< 0.0008	< 0.0008	**0.31**	-	**15.0**	**0.17 J**	**0.54**	**0.15 J**	**1.4**	**0.27 J**	**220**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.12 J**	< 0.20	< 0.20	< 0.20	< 0.20
	OU5-SG-20S	2006 01 (Spring)	**7.8**	< 0.014	< 0.0014	< 0.0014	< 0.0001	**78.0**	**14.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 7.0 UJ	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-8
Soil Gas Analytical Results at IR Site 25 Group: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Fixed Gases							Commonly Detected Aromatic Compounds							Commonly Detected Chlorinated Hydrocarbons									
			Carbon Dioxide	Carbon Monoxide	Ethane	Ethene	Methane	Nitrogen	Oxygen	Benzene	Toluene	Ethylbenzene	M,P-xylenes	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	%V/V	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	OU5-SG-20S	2005 02 (Summer)	**6.3**	< 0.013	< 0.0013	< 0.0013	< 0.0001	**78.0**	**16.0**	< 0.66	< 0.66	< 0.66	< 0.66	< 6.6	< 0.66	< 0.66	**1.3**	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66
		2005 01 (Spring)	**0.041**	< 0.014	< 0.0014	< 0.0014	**0.0003**	**79.0**	**21.0**	< 0.70	**0.83**	< 0.70	**0.73**	< 7.0	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	-	-	-	-	-	-	-	**22.0**	< 0.73	< 0.73	< 0.73	< 7.3	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73
		2004 02 (Summer)	-	-	-	-	-	-	-	**18.0**	**6.1**	**26.0**	**28.0**	**3.2**	< 1.0	< 0.20	**1.7**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.62**	< 0.20
		2004 01 (Spring)	-	-	-	-	-	-	-	**7.7**	**2.5**	**2.0**	**1.9**	**19.0**	< 1.0	**0.15 J**	**0.84**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.30**	< 0.20
		2003 04 (Winter)	**6.3**	< 0.0018	< 0.0009	< 0.0009	**0.0023**	-	**14.0**	**5.0**	**4.5**	**2.2**	**6.5**	**1.1**	< 1.0 UJ	< 0.20	**0.28**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.14 J**	< 0.20
		2003 03 (Fall)	**4.5**	< 0.0010	< 0.0010	< 0.0010	**0.26**	-	**12.0**	**82.0**	**79.0**	**200**	**228**	**204 J**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
		2003 02 (Summer)	-	-	-	-	-	-	-	**45.0**	< 30.0	< 30.0	< 30.0	**402**	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0
		2003 01 (Spring)	**4.7**	< 0.0014	< 0.0007	< 0.0007	**0.0039**	-	**15.0**	**0.10 J**	**1.6**	**0.46**	**3.2**	**13.0 J**	< 1.0	< 0.20	**0.72**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.17**	< 0.20 UJ
		2002 04 (Winter)	**2.8**	< 0.0017	< 0.0008	< 0.0008	**0.0007**	-	**20.0**	**0.11 J**	**0.52**	**0.12 J**	**0.56**	**35.0**	< 1.0	**1.3**	**0.23**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	**0.11 J**	< 0.20
		2002 03 (Fall)	**0.25**	< 0.0017	< 0.0008	< 0.0008	< 0.0003	-	**22.0**	**0.17 J**	**0.42**	< 0.20	< 0.50	< 0.50 UJ	**1.0**	< 0.20	**0.11 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-8
Soil Gas Analytical Results at IR Site 25 Group: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																					
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	OU5-SG-16D	2006 01 (Spring)	**12.0**	< 0.67	< 0.67 UJ	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	**1.3**	< 0.67	< 0.67	< 0.67	**1.0**	< 2.7	< 0.67	< 0.67	< 0.67
		2005 02 (Summer)	**10.0**	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	**2.8**	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2002 03 (Fall)	**7.6**	< 0.40	< 0.40	< 0.40	< 0.40	< 0.80	**0.52**	**0.67 J**	< 0.40	< 0.80	**0.29 J**	< 0.40	< 2.0 UJ	< 0.40 UJ	< 0.40	< 0.40	**0.88 J**	< 0.80	< 0.80	< 0.40	< 0.40
	OU5-SG-16S	2006 01 (Spring)	**14.0**	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70	**2.0**	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	**1.4**	< 0.70	< 0.70	< 0.70	**1.1**	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**3.4**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7 UJ	< 0.67	< 0.67	< 0.67
		2005 01 (Spring)	**3.3**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	**1.2**	< 2.8	< 0.70	< 0.70	**3.8**	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2004 01 (Spring)	< 1.6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**1.2**	**0.099 J**	< 0.20	**0.032 J**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.33 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**2.2 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**3.4**	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.98 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	**9.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 7.0	< 7.0	< 7.0	< 1.0	< 1.0
		2003 02 (Summer)	< 6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2002 04 (Winter)	**4.9**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.14 J**	**0.48**	< 0.20	< 0.40	**0.17 J**	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.72 J**	< 0.40 UJ	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	**1.7**	< 0.20	< 0.20	< 0.20	**0.097 J**	< 0.40	**0.22**	**0.46**	< 0.20	**0.11 J**	**0.31**	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0 J	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-17D	2006 01 (Spring)	**18.0**	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	**1.4**	< 0.70	< 0.70	< 0.70	**1.0**	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	**1.3**	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	**8.8**	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	**1.2 J**	< 0.74	-	< 0.74	< 0.74	**9.5**	< 0.74	< 0.74	< 0.74	**0.90**	< 3.0	< 0.74	< 0.74	< 0.74
		2002 03 (Fall)	**6.9**	< 0.20	< 0.20	< 0.20	**0.086 J**	< 0.40	**0.20**	**0.46**	< 0.20	< 0.40	**0.17 J**	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-17S	2006 01 (Spring)	**12.0**	< 0.68	< 0.68 UJ	< 0.68	< 0.68	< 0.68	**1.5**	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	**1.4**	< 0.68	< 0.68	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68
		2005 02 (Summer)	**3.5**	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	**1.8**	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66 UJ	< 0.66	< 0.66
		2005 01 (Spring)	**2.7**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**1.9**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	**7.7**	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	-	< 0.80	< 0.80	< 1.0	< 0.80	< 0.80	< 0.80	**0.88**	< 3.2	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	**3.1**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**2.8**	**0.25 J**	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.46 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	**4.8**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**1.8**	**0.53**	< 0.20	**0.071 J**	< 0.20	**0.095 J**	< 1.0	< 0.20	< 0.20	< 0.20	**0.84 J**	< 0.40	**0.43**	< 0.20	< 0.20
		2003 04 (Winter)	**1.0 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**1.4**	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.58 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2003 02 (Summer)	< 20.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 20.0	< 20.0	< 20.0	< 4.0	< 4.0
		2003 01 (Spring)	**0.80**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.96**	**0.17 J**	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	**1.3**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.56**	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.36 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	**2.0**	< 0.20	< 0.20	< 0.20	< 0.20 J	< 0.40	**1.0**	**0.18 J**	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	**0.35 J**	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-18D	2006 01 (Spring)	**390**	< 4.3	< 4.3 UJ	< 4.3	< 4.3	**12.0**	< 4.3	**24.0**	< 4.3	**7.9**	**12.0**	**42.0**	**8.5**	< 4.3	< 4.3	< 4.3	**69.0**	< 17.0	**4.3**	< 4.3	< 4.3
		2005 02 (Summer)	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6	< 0.66	**0.85**	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2004 04 (Winter)	**14.0**	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	-	< 0.78	< 0.78	< 1.0	< 0.78	< 0.78	< 0.78	**1.3**	< 3.1	< 0.78	< 0.78	< 0.78
		2004 02 (Summer)	**4.3 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	**1.0 J**	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2004 01 (Spring)	< 8.5	< 2.1	< 2.1	< 2.1	< 2.1	< 4.2	< 2.1	< 4.2	< 2.1	**0.77 J**	< 2.1	< 2.1	< 11.0	< 2.1	< 2.1	< 2.1	< 11.0	< 4.2	< 4.2	< 2.1	< 2.1
		2003 04 (Winter)	**7.1 J**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	< 6.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.0	< 6.0	< 6.0	< 1.0	< 1.0
		2003 02 (Summer)	< 120	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 23.0	< 120	< 120	< 120	< 23.0	< 23.0
		2003 01 (Spring)	**3.1 J**	< 1.8	< 1.8	< 1.8	< 1.8	< 3.6	< 1.8	< 3.6	< 1.8	**0.80 J**	< 1.8	< 1.8	< 9.0	< 1.8	< 1.8	< 1.8	< 9.0	< 3.6	< 3.6	< 1.8	< 1.8
		2002 03 (Fall)	< 0.80	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20	< 0.40	< 0.20	**1.1**	**0.17 J**	**0.33**	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-8
Soil Gas Analytical Results at IR Site 25 Group: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																					
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	OU5-SG-18S	2006 01 (Spring)	**8.1**	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70	**1.8**	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	**1.4**	< 0.70	< 0.70	< 0.70	**1.0**	< 2.8	< 0.70	< 0.70	< 0.70
		2005 02 (Summer)	**2.7**	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	**1.8**	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66	< 0.66	< 0.66
		2005 01 (Spring)	**5.6**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**2.1**	< 2.7	< 0.67	< 0.67	< 0.67	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	**13.0**	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	-	< 0.79	< 0.79	**19.0**	< 0.79	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79
		2004 02 (Summer)	**7.6**	< 0.20	< 0.20	< 0.20	**0.058 J**	< 0.40	**5.5**	**1.4**	< 0.20	**0.056 J**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.48 J**	< 0.40	**0.66**	< 0.20	< 0.20
		2004 01 (Spring)	**3.7**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**3.7**	**0.086 J**	< 0.20	**0.072 J**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.76 J**	< 0.40	**0.28 J**	< 0.20	< 0.20
		2003 04 (Winter)	**2.4 J**	< 0.22	< 0.22	< 0.22	< 0.22	< 0.43	**3.2**	< 0.43	< 0.22	**0.059 J**	< 0.22	< 0.22	< 1.1	< 0.22	< 0.22	< 0.22	**0.68 J**	< 0.43	< 0.43	< 0.22	< 0.22
		2003 03 (Fall)	< 22.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 22.0	< 22.0	< 22.0	< 4.0	< 4.0
		2003 02 (Summer)	**33.0 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**11.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 01 (Spring)	**7.6**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**3.5**	< 0.40	< 0.20	< 0.40	**0.080 J**	**0.22**	< 1.0	< 0.20	< 0.20	< 0.20	**6.8**	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	**2.5**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**2.1**	**0.089 J**	< 0.20	< 0.40	**0.41**	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.23 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	**4.4**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**4.9**	< 0.40	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	**0.78 J**	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-19D	2006 01 (Spring)	**83.0**	< 0.73	< 0.73 UJ	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	**1.5**	< 0.73	< 0.73	< 0.73	**1.5**	< 2.9	< 0.73	< 0.73	< 0.73
		2005 02 (Summer)	< 11.0	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 11.0	< 2.7	< 2.7	< 2.7	< 2.7	< 1.0	< 2.7	< 2.7	< 2.7	< 2.7	< 11.0 UJ	< 2.7	< 2.7	< 2.7
		2004 04 (Winter)	**8.4**	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	**1.5 J**	< 0.74	-	< 0.74	< 0.74	< 1.0	< 0.74	< 0.74	< 0.74	**1.2**	< 3.0	< 0.74	< 0.74	< 0.74
		2004 02 (Summer)	< 10.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 04 (Winter)	**77.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	< 10.0	< 10.0	< 10.0	< 2.0	< 2.0
		2003 03 (Fall)	**27.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25.0	< 25.0	< 25.0	< 5.0	< 5.0
		2003 02 (Summer)	< 110	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 22.0	< 110	< 110	< 110	< 22.0	< 22.0
		2003 01 (Spring)	**18.0**	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10.0	< 2.0	< 2.0	< 2.0	**4.5 J**	< 10.0	< 10.0	< 2.0	< 2.0
		2002 04 (Winter)	**18.0**	< 0.30	< 0.30	< 0.30	< 0.30	< 0.60	< 0.30	**0.57 J**	< 0.30	**0.81**	**1.8**	**0.14 J**	< 1.5	< 0.30	< 0.30	< 0.30	**3.1**	< 0.60	< 0.60	< 0.30	< 0.30
		2002 03 (Fall)	**3.0**	< 0.20	< 0.20	< 0.20	**0.072 J**	< 0.40	**0.50**	**0.26 J**	< 0.20	< 0.40	**0.17 J**	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-19S	2006 01 (Spring)	**33.0**	< 0.72	< 0.72 UJ	< 0.72	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	**1.4**	< 0.72	< 0.72	< 0.72	**0.81**	< 2.9	< 0.72	< 0.72	< 0.72
		2005 02 (Summer)	**6.7**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2005 01 (Spring)	**5.0**	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	**2.7**	< 0.67	< 1.0	< 0.67	< 0.67	< 0.67	< 0.67	< 2.7	< 0.67	< 0.67	< 0.67
		2004 04 (Winter)	**44.0**	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	-	< 0.80	< 0.80	**26.0**	< 0.80	< 0.80	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80
		2004 02 (Summer)	**6.4**	< 0.20	< 0.20	< 0.20	**0.081 J**	< 0.40	**0.56**	**0.29 J**	< 0.20	< 0.40	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.50 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	**3.4**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**1.2**	**0.28 J**	< 0.20	**0.045 J**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.60 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**4,100**	< 19.0	< 19.0	< 19.0	< 19.0	< 38.0	< 19.0	< 38.0	< 19.0	< 19.0	< 19.0	< 19.0	< 94.0	< 19.0	< 19.0	< 19.0	< 94.0	< 94.0	< 94.0	< 19.0	< 19.0
		2003 03 (Fall)	< 23.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 23.0	< 23.0	< 23.0	< 5.0	< 5.0
		2003 02 (Summer)	**26.0 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0
		2003 01 (Spring)	**2.1**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.79**	**0.23 J**	< 0.20	< 0.40	**0.086 J**	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.32 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	**8.1**	< 0.45	< 0.45	< 0.45	< 0.45	< 0.90	**1.9**	< 0.90	< 0.45	**0.32 J**	< 0.45	< 0.45	< 2.2	< 0.45	< 0.45	< 0.45	**1.1 J**	< 0.90	< 0.90	< 0.45	< 0.45
		2002 03 (Fall)	**4.2**	< 0.20	< 0.20	< 0.20	**0.087 J**	< 0.40	**0.69**	**0.36 J**	< 0.20	< 0.40	**0.14 J**	**0.062 J**	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	**0.90 J**	< 0.40	< 0.40	< 0.20	< 0.20
	OU5-SG-20D	2004 04 (Winter)	**7.2**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	-	< 0.70	< 0.70	**7.0**	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2003 03 (Fall)	**70.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 520	< 5.0	**45.0**	< 5.0	< 5.0	< 5.0	< 5.0	< 26.0	< 26.0	< 26.0	< 5.0	< 5.0
		2002 03 (Fall)	**1.2**	< 0.20	< 0.20	< 0.20	**0.057 J**	< 0.40	**0.21**	< 0.40	< 0.20	**0.087 J**	**0.15 J**	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	**0.54**	< 0.20	< 0.20
	OU5-SG-20S	2006 01 (Spring)	**23.0**	< 0.70	< 0.70 UJ	< 0.70	< 0.70	< 0.70	**1.2**	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	**1.4**	< 0.70	< 0.70	< 0.70	**0.92**	< 2.8	< 0.70	< 0.70	< 0.70

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-8
Soil Gas Analytical Results at IR Site 25 Group: Volatile Organic Compounds and Fixed Gases
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Remaining VOCs																					
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Isopropylbenzene (Cumene)	Methylene Chloride	Styrene	Vinyl Acetate	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,2-Dichloropropane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone (MIBK)	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene
		Units:	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV	PPBV
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VADOSE	OU5-SG-20S	2005 02 (Summer)	**2.9**	< 0.66	< 0.66	< 0.66	< 0.66	< 0.66	**3.8**	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	< 1.0	< 0.66	< 0.66	< 0.66	< 0.66	< 2.6 UJ	< 0.66 UJ	< 0.66	< 0.66
		2005 01 (Spring)	**2.8**	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70	**0.54**	< 0.70	< 0.70	< 0.70	< 0.70	< 1.0	< 0.70	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70
		2004 04 (Winter)	**5.7**	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	-	< 0.73	< 0.73	< 1.0	< 0.73	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73
		2004 02 (Summer)	**7.3**	**0.17 J**	< 0.20	< 0.20	**0.051 J**	< 0.40	**2.0**	**0.17 J**	< 0.20	**1.5**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.66 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2004 01 (Spring)	< 2.9	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.64**	**0.23 J**	< 0.20	**0.18 J**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.46 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 04 (Winter)	**5.6 J**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.29**	< 0.40	< 0.20	**0.21 J**	< 0.20	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.28 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2003 03 (Fall)	< 23.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**32.0**	< 5.0	**4.9**	< 5.0	< 5.0	< 5.0	< 5.0	< 23.0	< 23.0	< 23.0	< 5.0	< 5.0
		2003 02 (Summer)	**214 J**	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 30.0	< 150	< 150	< 150	< 30.0	< 30.0
		2003 01 (Spring)	**19.0**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.95**	**4.5**	< 0.20	< 0.40	**0.094 J**	**0.093 J**	< 1.0	< 0.20	< 0.20	< 0.20	**2.1**	< 0.40	< 0.40	< 0.20	< 0.20
		2002 04 (Winter)	**4.7**	< 0.20	< 0.20	< 0.20	< 0.20	< 0.40	**0.64**	< 0.40	< 0.20	**0.20 J**	**0.46**	< 0.20	< 1.0	< 0.20	< 0.20	< 0.20	**0.43 J**	< 0.40	< 0.40	< 0.20	< 0.20
		2002 03 (Fall)	**1.6**	< 0.20	< 0.20	< 0.20	**0.096 J**	< 0.40	< 0.20	**0.55**	< 0.20	< 0.40	**0.10 J**	< 0.20	< 1.0 UJ	< 0.20 UJ	< 0.20	< 0.20	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	9	14	16.0	M25-04	02 May 2006	10000	M25-02	2002 03 (Fall)
Benzene (UG/L)	12	14	640	P181-MW47	03 May 2006	720	P181-MW47	2004 04 (Winter)
Toluene (UG/L)	11	14	140	M25-01	13 Sep 2005	200 J	M25-01	2004 01 (Spring)
Trichloroethene (UG/L)	1	14	2.2 J	M25-05	02 May 2006	3.6 J	M25-05	2003 01 (Spring)
Ethylbenzene (UG/L)	12	14	170	M25-01	13 Sep 2005	220	P181-MW46	2002 04 (Winter)
M,P-xylenes (UG/L)	11	14	95.0	M25-01	13 Sep 2005	130 J	M25-01	2004 01 (Spring)
O-xylene (UG/L)	11	14	72.0	M25-01	13 Sep 2005	81.0	M25-01	2003 04 (Winter)
Naphthalene (UG/L)	12	14	6300	M25-01	13 Sep 2005	6200	M25-01	2004 04 (Winter)
Carbon Disulfide (UG/L)	6	14	0.90 J	M25-05	12 Sep 2005	8.0 J	P181-MW46	2004 04 (Winter)
Methyl tert-butyl ether (MTBE) (UG/L)	2	14	5.4	M25-09	03 May 2006	4.9	M25-09	2005 01 (Spring)
Chlorobenzene (UG/L)	1	14	15.0 J	M25-01	13 Sep 2005	1.8	S-35	2002 04 (Winter)
Isopropylbenzene (UG/L)	9	14	2.5 J	M25-05	02 May 2006	4.1 J	P181-MW46	2002 04 (Winter)
Isopropyl Ether (UG/L)	2	14	3.0	PW-12	13 Sep 2005	2.0 J	PW-12	2003 03 (Fall)
Methyl isobutyl ketone (MIBK) (UG/L)	1	14	0.20 J	M25-02	02 May 2006	3.5 J	M25-03	2003 03 (Fall)
n-Propylbenzene (UG/L)	3	14	1.3 J	M25-05	02 May 2006	4.1 J	P181-MW45	2004 04 (Winter)
p-Isopropyltoluene (UG/L)	1	14	0.30 J	P181-MW46	02 May 2006	3.8	M25-01	2002 04 (Winter)
Styrene (UG/L)	6	14	11.0 J	M25-01	02 May 2006	29.0 J	M25-01	2004 01 (Spring)
Tert-butyl alcohol (UG/L)	2	14	1.7 J	M25-02	13 Sep 2005	23.0 J	M25-04	2003 04 (Winter)
1,2,4-Trimethylbenzene (UG/L)	10	14	20.0 J	M25-01	02 May 2006	28.0 J	M25-01	2004 01 (Spring)
1,3,5-Trimethylbenzene (UG/L)	8	14	6.6 J	M25-01	02 May 2006	10.0 J	M25-01	2003 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (Second Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Naphthalene (UG/L)	1	1	1.7 J	D-02R	13 Sep 2005	2.3 J	D-02R	2005 01 (Spring)
Carbon Disulfide (UG/L)	1	1	0.30 J	D-02R	13 Sep 2005	0.50 J	D-02	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (First Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	13	14	300 J	M25-01	02 May 2006	250	M25-01	2004 04 (Winter)
Acenaphthylene (UG/L)	11	14	470 J	M25-01	13 Sep 2005	570	M25-01	2004 02 (Summer)
Anthracene (UG/L)	12	14	11.0 J	M25-01	02 May 2006	16.0	M25-01	2002 03 (Fall)
Benzo(a)anthracene (UG/L)	11	14	1.4 J	M25-01	02 May 2006	2.5	M25-01	2002 03 (Fall)
Benzo(a)pyrene (UG/L)	9	14	1.9 J	M25-01	02 May 2006	5.2	M25-01	2003 04 (Winter)
Benzo(b)fluoranthene (UG/L)	9	14	0.91 J	M25-01	02 May 2006	2.5	M25-01	2003 04 (Winter)
Benzo(g,h,i)perylene (UG/L)	7	14	2.3 J	M25-01	02 May 2006	3.9	M25-01	2003 04 (Winter)
Benzo(k)fluoranthene (UG/L)	5	14	0.49 J	M25-01	02 May 2006	1.4	M25-01	2003 04 (Winter)
Chrysene (UG/L)	11	14	3.8 J	M25-01	02 May 2006	7.6	M25-01	2003 04 (Winter)
Dibenz(a,h)anthracene (UG/L)	4	14	2.2 J	M25-01	02 May 2006	14.0	M25-01	2004 02 (Summer)
Fluoranthene (UG/L)	13	14	14.0 J	M25-01	02 May 2006	29.0	M25-01	2003 02 (Summer)
Fluorene (UG/L)	9	14	70.0 J	M25-01	13 Sep 2005	86.0	M25-01	2004 04 (Winter)
Indeno(1,2,3-c,d)pyrene (UG/L)	7	14	1.7 J	M25-01	02 May 2006	4.2	M25-01	2002 03 (Fall)
Naphthalene (UG/L)	12	14	6300	M25-01	13 Sep 2005	6200	M25-01	2004 04 (Winter)
Phenanthrene (UG/L)	12	14	94.0 J	M25-01	13 Sep 2005	110	M25-01	2004 04 (Winter)
Pyrene (UG/L)	14	14	13.0 J	M25-01	02 May 2006	25.0	M25-01	2002 03 (Fall)

Result exceeds Maximum Contaminant Level (MCL)

Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (Second Water-Bearing Zone)								
Polycyclic Aromatic Hydrocarbons								
Acenaphthene (UG/L)	1	1	0.93 J	D-02R	08 May 2006	--	NA	NA
Anthracene (UG/L)	1	1	0.060 J	D-02R	08 May 2006	0.10 J	D-02R	2005 01 (Spring)
Fluoranthene (UG/L)	1	1	0.29	D-02R	13 Sep 2005	0.30	D-02R	2005 01 (Spring)
Fluorene (UG/L)	1	1	0.79	D-02R	13 Sep 2005	0.43 J	D-02R	2005 01 (Spring)
Naphthalene (UG/L)	1	1	1.7 J	D-02R	13 Sep 2005	2.3 J	D-02R	2005 01 (Spring)
Phenanthrene (UG/L)	1	1	1.3	D-02R	13 Sep 2005	1.5 J	D-02R	2005 01 (Spring)
Pyrene (UG/L)	1	1	0.23	D-02R	13 Sep 2005	0.28	D-02R	2005 01 (Spring)

Result exceeds Maximum Contaminant Level (MCL)

Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	11	11	1.3	PW-12	13 Sep 2005	2.7 J	M25-05	2004 01 (Spring)
Arsenic (UG/L)	10	11	150 J	PW-12	13 Sep 2005	22.0	M25-05	2003 01 (Spring)
Barium (UG/L)	11	11	1600	PW-12	13 Sep 2005	1960 J	P181-MW45	2003 02 (Summer)
Beryllium (UG/L)	8	11	22.0 J	S-16R	03 May 2006	1.8 J	M25-01	2003 02 (Summer)
Cadmium (UG/L)	10	11	4.2 J	M25-09	14 Sep 2005	3.9 J	PW-12	2004 02 (Summer)
Chromium (UG/L)	7	11	9.0 J	S-16R	13 Sep 2005	19.0	P181-MW45	2002 02 (Summer)
Cobalt (UG/L)	11	11	3.7	S-16R	13 Sep 2005	7.5 J	M25-05	2003 04 (Winter)
Copper (UG/L)	8	11	9.9 J	M25-04	02 May 2006	17.0	S16-2	2004 02 (Summer)
Lead (UG/L)	2	11	0.29 J	M25-02	02 May 2006	0.94 J	S-35	2004 02 (Summer)
Manganese (UG/L)	11	11	4000	M25-09	03 May 2006	4900	M25-09	2004 04 (Winter)
Mercury (UG/L)	1	11	0.24	P181-MW47	12 Sep 2005	0.28	PW-12	2004 02 (Summer)
Molybdenum (UG/L)	2	11	3.3 J	M25-01	13 Sep 2005	25.2 J	M25-05	2004 01 (Spring)
Nickel (UG/L)	11	11	20.0	M25-04	13 Sep 2005	23.0	S-16R	2004 04 (Winter)
Selenium (UG/L)	3	11	7.0	M25-01	02 May 2006	13.0	M25-02	2002 04 (Winter)
Silver (UG/L)	3	11	0.20 J	S-16R	03 May 2006	15.0	S-16	2002 02 (Summer)
Thallium (UG/L)	4	11	5.8	M25-01	02 May 2006	6.4	P181-MW45	2002 04 (Winter)
Vanadium (UG/L)	11	11	16.0	M25-05	12 Sep 2005	20.0 J	M25-03	2002 04 (Winter)
Zinc (UG/L)	11	11	22.0 J	M25-09	14 Sep 2005	24.0	M25-03	2004 02 (Summer)
Aluminum (UG/L)	6	11	140 J	S-16R	13 Sep 2005	236 J	M25-01	2003 02 (Summer)
Iron (UG/L)	11	11	150000	M25-09	03 May 2006	180000	M25-09	2004 04 (Winter)
Calcium (MG/L)	11	11	530	S-16R	03 May 2006	580	S-16	2002 02 (Summer)
Magnesium (MG/L)	11	11	1600	S-16R	03 May 2006	1800	P181-MW45	2002 02 (Summer)
Potassium (MG/L)	11	11	350	S-16R	03 May 2006	417	S16-2	2003 04 (Winter)
Sodium (MG/L)	11	11	11000	S-16R	03 May 2006	11000	S16-2	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (Second Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	1	1	0.25 J	D-02R	13 Sep 2005	0.068 J	D-02	2004 04 (Winter)
Arsenic (UG/L)	1	1	79.0	D-02R	08 May 2006	71.8	D-02	2003 02 (Summer)
Barium (UG/L)	1	1	1300	D-02R	08 May 2006	2500	D-02	2004 04 (Winter)
Cobalt (UG/L)	1	1	4.7	D-02R	08 May 2006	1.3	D-02	2004 04 (Winter)
Copper (UG/L)	1	1	2.9 J	D-02R	08 May 2006	3.1 J	D-02	2004 04 (Winter)
Manganese (UG/L)	1	1	5300	D-02R	08 May 2006	20000	D-02	2004 04 (Winter)
Nickel (UG/L)	1	1	11.0 J	D-02R	08 May 2006	7.4 J	D-02	2004 04 (Winter)
Selenium (UG/L)	1	1	8.4	D-02R	08 May 2006	12.0	D-02	2002 02 (Summer)
Zinc (UG/L)	1	1	23.0	D-02R	13 Sep 2005	9.5 J	D-02	2004 04 (Winter)
Aluminum (UG/L)	1	1	92.0 J	D-02R	13 Sep 2005	3.0 J	D-02	2004 04 (Winter)
Iron (UG/L)	1	1	18000	D-02R	08 May 2006	24400	D-02	2003 02 (Summer)
Calcium (MG/L)	1	1	260	D-02R	08 May 2006	610	D-02	2004 04 (Winter)
Magnesium (MG/L)	1	1	460	D-02R	08 May 2006	430	D-02	2004 04 (Winter)
Potassium (MG/L)	1	1	67.0	D-02R	08 May 2006	18.8 J	D-02	2003 02 (Summer)
Sodium (MG/L)	1	1	2400	D-02R	08 May 2006	1300	D-02	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	11	11	3700	S-16R	13 Sep 2005	4280	PW-12	2003 04 (Winter)
Sulfide (MG/L)	9	11	9.7	M25-02	02 May 2006	6.0	M25-02	2004 02 (Summer)
Alkalinity, bicarbonate (MG/L)	11	11	3700	S-16R	13 Sep 2005	4280	PW-12	2003 04 (Winter)
Methane (MG/L)	11	11	16.0	M25-02	02 May 2006	18.0	P181-MW46	2004 02 (Summer)
Nitrate (MG/L)	1	11	0.20	M25-04	02 May 2006	10.5	M25-01	2003 04 (Winter)
Chloride (MG/L)	11	11	20000	S-16R	13 Sep 2005	21000	S-16R	2004 04 (Winter)
Sulfate (as SO4) (MG/L)	10	11	570	PW-12	13 Sep 2005	626	M25-05	2003 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

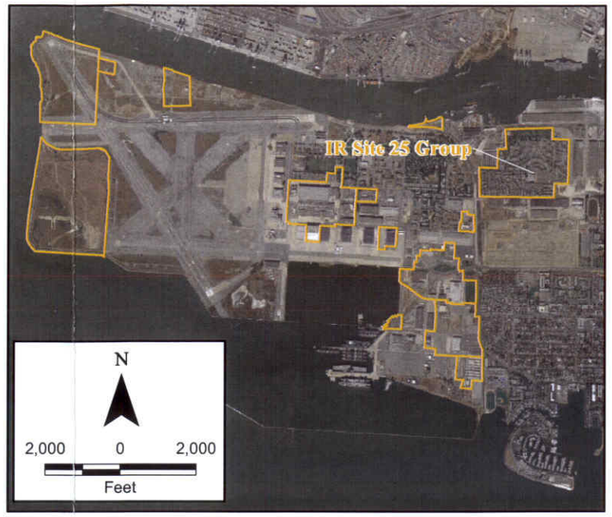
Table 13-9

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 25 Group

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 25 Group (Second Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	1	1	1500	D-02R	13 Sep 2005	920	D-02	2002 02 (Summer)
Alkalinity, bicarbonate (MG/L)	1	1	1500	D-02R	13 Sep 2005	920	D-02	2002 02 (Summer)
Ethene (MG/L)	1	1	0.0030 J	D-02R	13 Sep 2005	--	NA	NA
Methane (MG/L)	1	1	21.0	D-02R	08 May 2006	29.0	D-02	2002 02 (Summer)
Chloride (MG/L)	1	1	4600	D-02R	13 Sep 2005	3790	D-02	2003 02 (Summer)
Sulfate (as SO4) (MG/L)	1	1	0.31 J	D-02R	13 Sep 2005	--	NA	NA

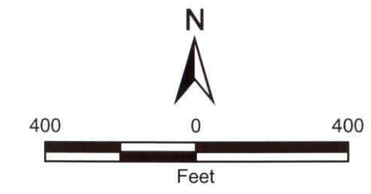
Result exceeds Maximum Contaminant Level (MCL)

FIGURES



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- VADOSE
- Abandoned Well (FWBZ)
- Abandoned Well (SWBZ)
- IR Site Boundary
- Facility



Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004
National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Site 25 Group\Annual 25 Group Location Map_NAD83.mxd

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FIGURE 13-1
IR SITE 25 GROUP
SITE AND WELL LOCATION MAP

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 25 GW ContourS Spr 2006.mxd

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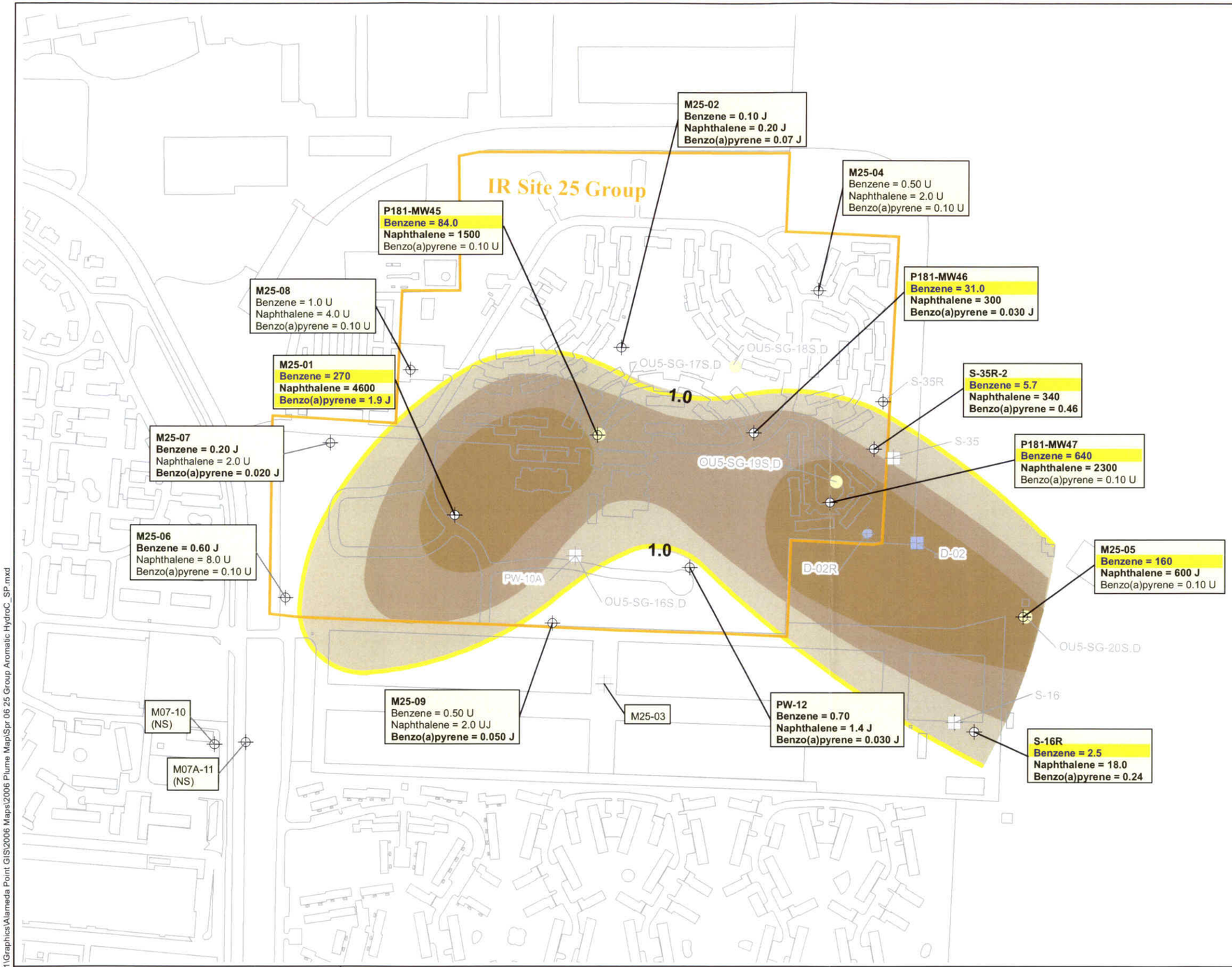
FIGURE 13-2
IR SITE 25 GROUP
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006



Legend

- 1 - 10 ug/L Benzene
- 10 - 100 ug/L Benzene
- > 100 ug/L Benzene
- 1.0 ug/L MCL Contour for Benzene
- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- Abandoned Well (FWBZ)
- Abandoned Well (SWBZ)
- IR Site Boundaries
- Facility Infrastructure

J	Estimated Value
MCL	Maximum Contaminant Level
NS	Not Sampled in Spring 2006
U	Not Detected
ug/L	Micrograms per Liter

Results presented in ug/L
Highlighted values exceed MCL

N

400 0 400

Feet

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Map\Spr 06 25 Group Aromatic HydroC_SP.mxd

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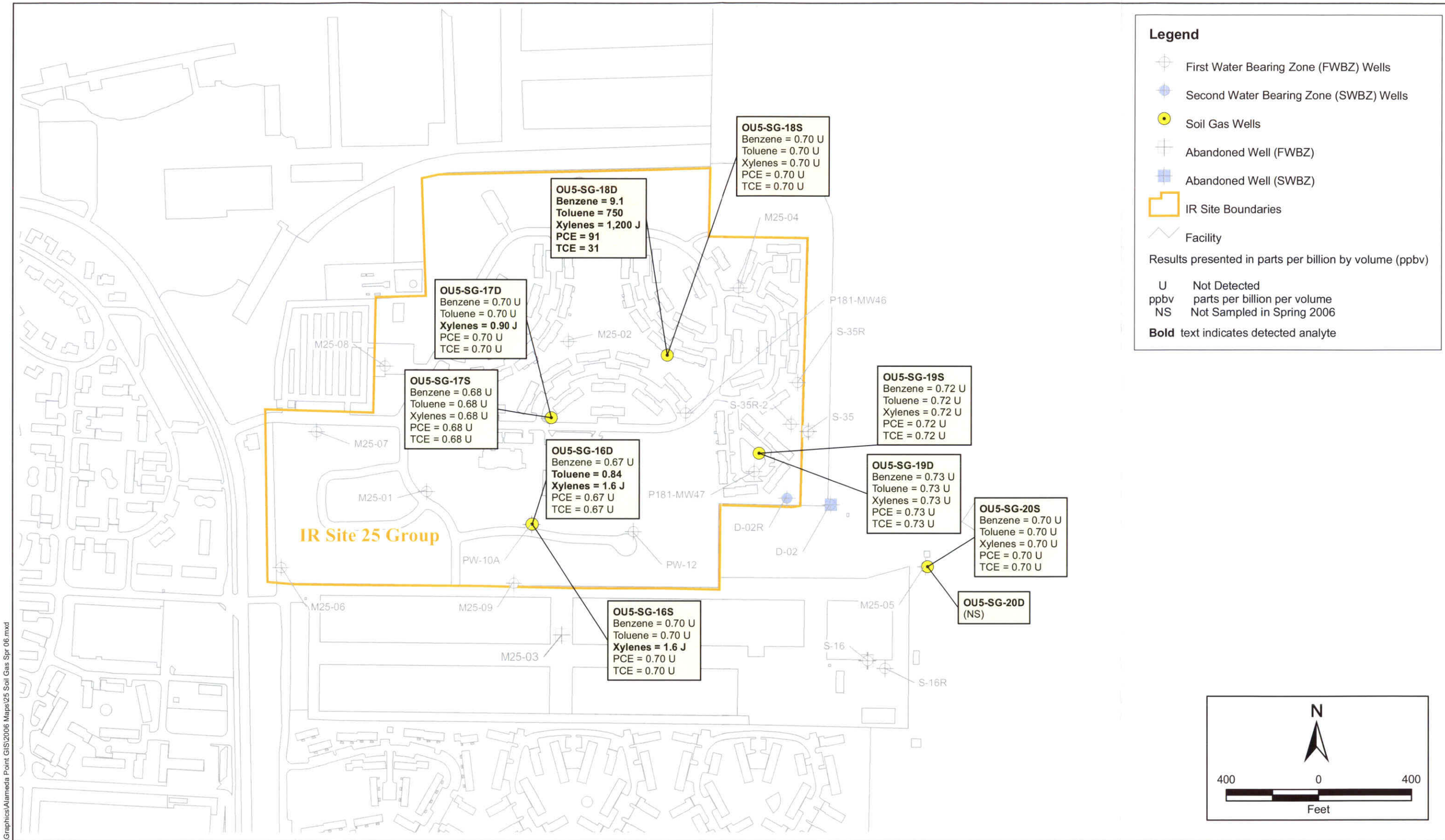
FIGURE 13-3
IR SITE 25 GROUP
GROUNDWATER DISTRIBUTION OF
SELECTED AROMATIC HYDROCARBONS IN FWBZ WELLS
SPRING 2006



Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- Soil Gas Wells
- Abandoned Well (FWBZ)
- Abandoned Well (SWBZ)
- IR Site Boundaries
- Facility

Results presented in parts per billion by volume (ppbv)

U	Not Detected
ppbv	parts per billion per volume
NS	Not Sampled in Spring 2006

Bold text indicates detected analyte

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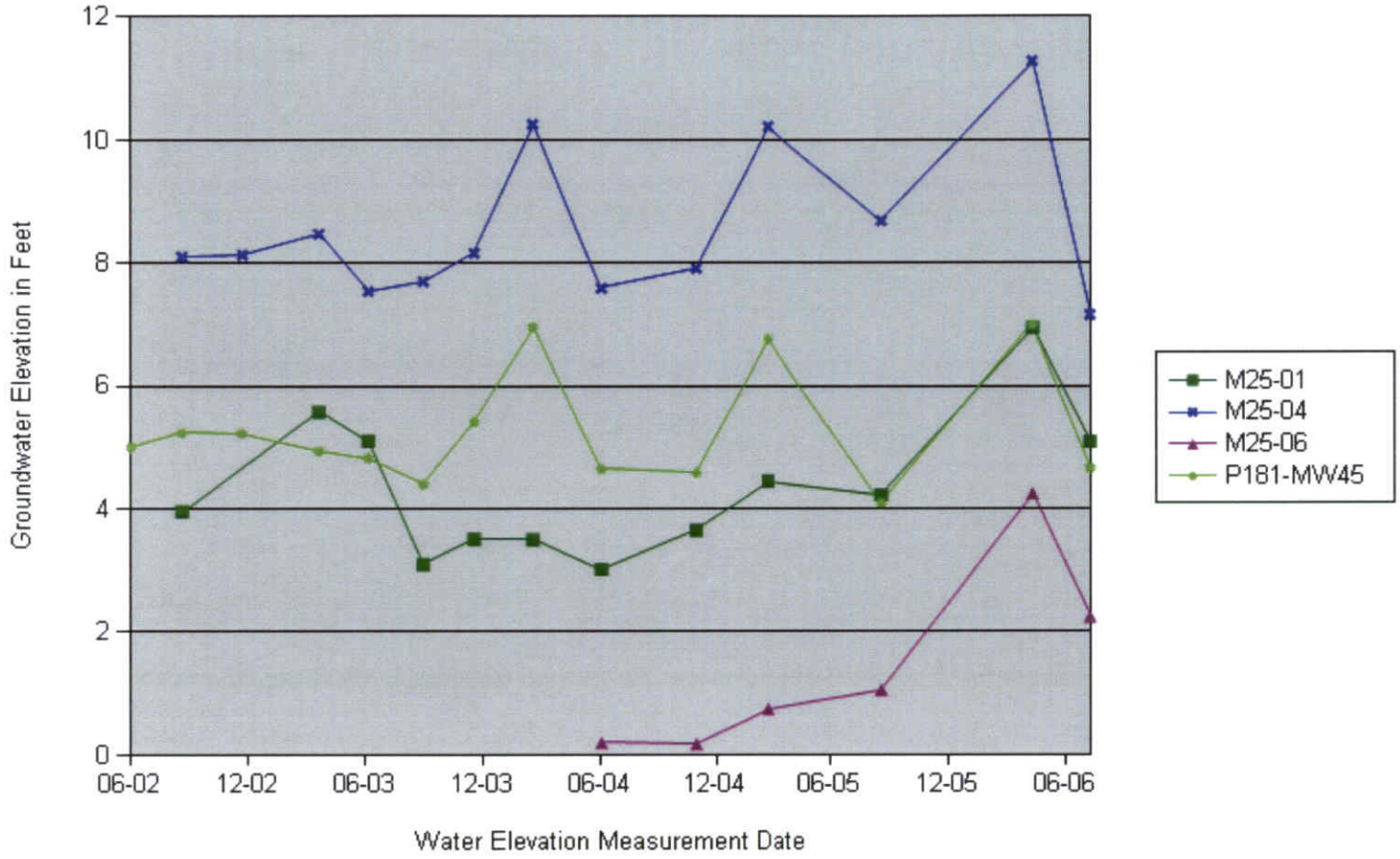
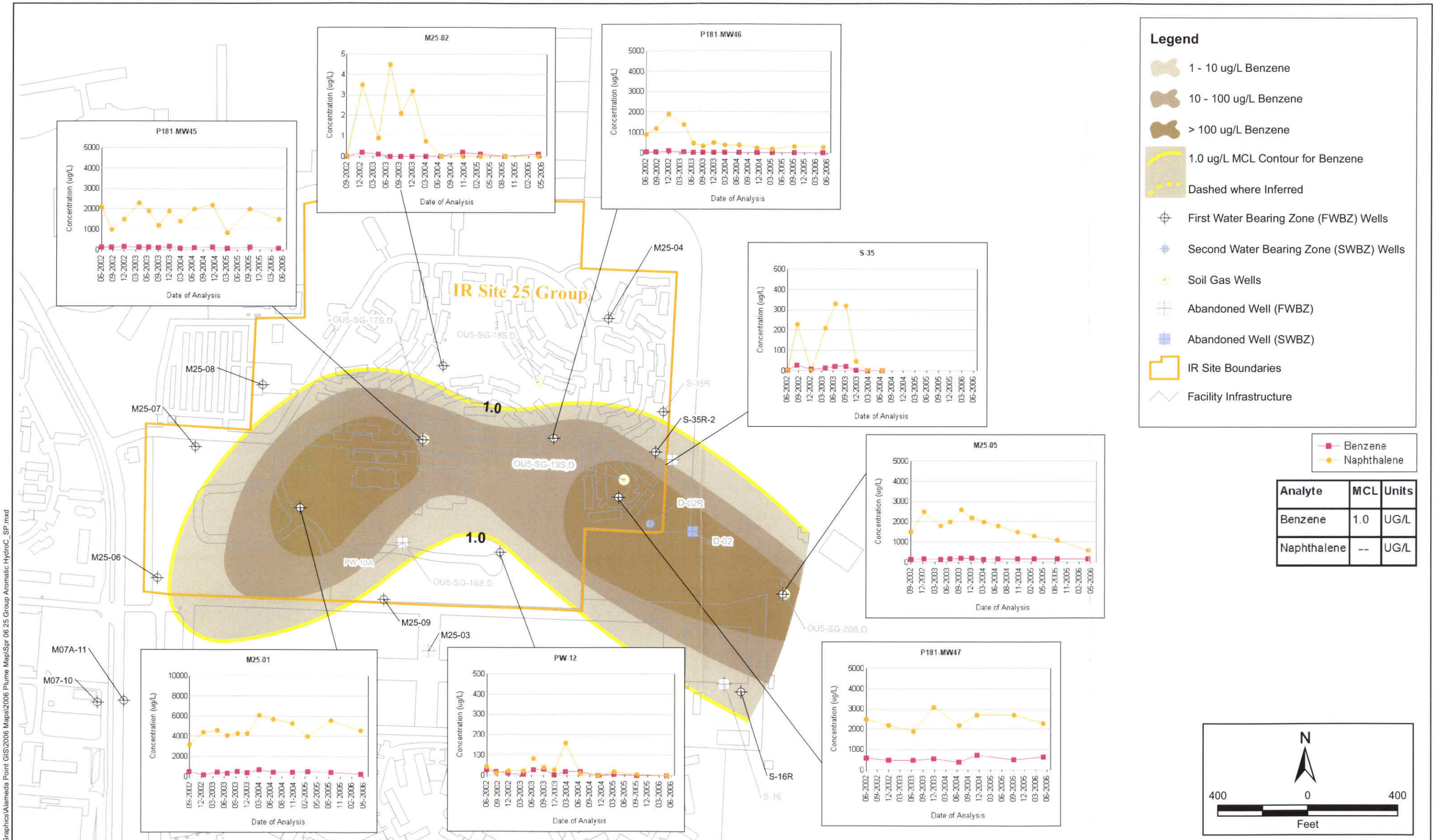
FIGURE 13-4
IR SITE 25 GROUP
SELECTED SOIL GAS ANALYTICAL DETECTIONS:
VOLATILE ORGANIC COMPOUNDS
SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\25 Soil Gas Spr 06.mxd



ITSI Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	**FIGURE 13-5** TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 25: SOUTHWEST ORIENTED FWBZ WELLS SUMMER 2002 THROUGH SPRING 2006



Analyte	MCL	Units
Benzene	1.0	UG/L
Naphthalene	--	UG/L

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Map\Spr 06 25 Group Aromatic HydroC_SP.mxd

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FIGURE 13-6
IR SITE 25 GROUP
GROUNDWATER CONCENTRATIONS OF AROMATIC HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

14A INSTALLATION RESTORATION SITE 26

The basewide groundwater monitoring program does not include sampling monitoring wells at IR26. Groundwater elevations were measured at some monitoring wells to develop the Spring 2006 basewide groundwater elevation map. These elevations are presented in Table 14-2A.

TABLES

Table 14-2A
Summary of Groundwater Level Measurements at IR Site 26
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	26SW01	NA	11.08	4/11/06	2.4	8.68
First	26SW02	NA	10.52	4/11/06	0.87	9.65
First	26SW03	NA	10.5	4/11/06	2.2	8.30
First	26SW04	NA	12.33	4/11/06	4.9	7.43
First	26SW05	NA	10.66	4/11/06	2.16	8.50

Notes:
BTOC = below top of casing
msl = mean sea level
NA = Not available

14.0 INSTALLATION RESTORATION SITE 27

IR Site 27 is located in southern Alameda Point (Figure 1-2) in the Dock Zone at the southeastern corner of the Seaplane Lagoon. The site represents a small industrial area where maintenance and repair of small watercraft was conducted. The contamination may be associated with former ship repair and painting operations at the site. The area was designated an IR site due to the VOC contamination detected in groundwater in the area of former USTs 15-1, 15-2, and 15-3. Additional background data for this site may be found in the Alameda Point Environmental Baseline Survey (EBS) (IT, 2001).

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 27 included sampling and analysis of four FWBZ groundwater monitoring wells. An additional seven FWBZ groundwater monitoring wells are used for quarterly groundwater-level measurement only. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 14-1 along with their analytical requirements. The table also shows the screened interval, water-bearing zone and geologic formation for each well. Non-program wells (i.e. wells that are not sampled) that are used for obtaining water-level measurements only are shown at the end of the table. The site and well locations are presented on Figure 14-1.

14.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from 11 groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 27. The results are presented along with historical water-level measurement data in Table 14-2. Groundwater flow direction and gradient are discussed in Section 14.4.1. Trends in groundwater elevations are discussed in Section 14.4.4.

14.2 ANALYTICAL PARAMETERS

Groundwater monitoring wells at IR Site 27 sampled during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- TPH as gasoline by EPA Method 8015B

- VOCs by EPA Method 8260B
- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Natural Attenuation Parameters by RSK Method 175, EPA Method 9056/300.0, 310.1, 376.2, and 160.1, and Hach 8146 (field method)
- Field Parameters (measured using portable field instruments)

Table 14-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

14.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 through Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 14-3 through 14-6 as follows:

- Table 14-3, "Groundwater Sample Analytical Results at IR Site 27: Total Petroleum Hydrocarbons and Volatile Organic Compounds, Summer 2002 through Spring 2006"
- Table 14-4, "Groundwater Sample Analytical Results at IR Site 27: Dissolved Metals, Summer 2002 through Spring 2006"
- Table 14-5, "Groundwater Sampling Field Parameters at IR Site 27, Summer 2002 through Spring 2006".
- Table 14-6, "Groundwater Sample Analytical Results at IR Site 27: Natural Attenuation Parameters, Summer 2002 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding

background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

14.4 DISCUSSION OF RESULTS

Concentrations of one aromatic and various chlorinated hydrocarbons have been consistently detected in groundwater samples collected from groundwater monitoring wells screened in the IR Site 27 FWBZ wells. The following VOC analytes were detected at concentrations exceeding MCLs in FWBZ wells during the current sampling year: **TCE, cis-1,2-DCE, and vinyl chloride** (Table 14-3).

TCE was detected above the MCL of 5.0 µg/L in two wells, at a maximum concentration of 7.2 µg/L at well 15-MW3 during Spring 2006. Cis-1,2-DCE was detected above the MCL of 6 µg/L in two wells, at a maximum concentration of 25.0 µg/L at well 15-MW3 during Summer 2005. Vinyl chloride was detected above the MCL of 0.50 µg/L in three wells, at a maximum concentration of 49 µg/L at well 15-MW3 in Spring 2006.

Arsenic was detected above its MCL of 10 µg/L in three wells, at a maximum concentration of 20 µg/L at well 15-MW3 in Summer 2005 (Table 14-4). Arsenic was the only dissolved metal detected at concentrations exceeding an MCL during the current sampling year.

Field parameters measured during sampling are presented in Table 14-5.

A summary of detected analytical results for natural attenuation parameters is presented in Table 14-6. Four wells at IR Site 27 are monitored for various natural attenuation parameters, such as alkalinity, dissolved gases, anions, nitrate and sulfate. Methane as dissolved gases was detected at a maximum concentration of 0.46 mg/L in well 15-MW3 in Spring 2006.

14.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 14-2. Groundwater flow direction in the FWBZ is generally towards the west-northwest at a gradient of approximately 0.0075 feet per foot. There are no SWBZ wells in Site 27.

14.4.2 Groundwater Contaminant Distribution

Groundwater contaminants above MCLs, consisting of cis-1,2-DCE, vinyl chloride, and TCE, occur within and outside the boundaries of IR Site 27. These contaminants are posted on Figure 14-3. The TCE plume is defined by detections in well 15-MW3 and its horizontal migration is delineated by two downgradient wells towards the west.

Among IR Site 27 metals results for the current sampling year, only arsenic exceeded an MCL. Arsenic exceeded its MCL at three wells, but in two cases (15-MW1 and 27MW06) these were the only exceedances since 2002; thus these exceedances do not represent ongoing contamination. Arsenic has consistently exceeded its MCL at well 15-MW3. However, any contaminant plume is quite limited in extent, as the three nearest downgradient wells (15MJ-MW1, 15-MW1, and 15-MW2, located about 100 feet downgradient from 15-MW3) have generally had low concentrations for arsenic since 2002.

14.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 14-7, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Concentrations exceeding MCLs are highlighted in yellow on the table. Table 14-7 also lists the historical maximum concentration (Summer 2002 through Spring 2005) for each analyte.

Current analytical results are consistent with the historical data, except that trans-1,2-dichloroethene, MTBE, and lead were not detected above their respective MCLs in the current sampling round.

14.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevations over the time are represented on Figure 14-4 for selected wells. Small variations in groundwater elevation occur due to seasonal fluctuation in wells located further inland (15-MW3, 27MW01, 27MW06, and 27MW08), with elevations being high in the spring and low in the summer and fall. An exception to this pattern is at 15-MW1, where elevations do not show any apparent seasonal fluctuations; the proximity of this well to the shoreline may cause tidal effects to influence groundwater elevations.

14.4.5 Trends in Groundwater Contaminant Concentrations

Trends in groundwater contaminant concentrations in selected wells over time are displayed on Figures 14-5 and 14-6. Trend curves of chlorinated hydrocarbons generally show small variations between sampling events but an overall decline in concentrations over time. MTBE, despite several fluctuations, has remained at low concentrations over time.

14.5 CONCLUSIONS AND RECOMMENDATIONS

IR Site 27 contaminants of concern exceeding MCLs, chlorinated hydrocarbons and MTBE, occur at highest concentrations in the southwestern portion of the site. MTBE concentrations exceeding MCL were detected in 15-MW3 well for two consecutive rounds of sampling historically, but not in the current sampling year.

Chlorinated hydrocarbon concentrations above MCL were detected in all four wells sampled during the current sampling year. The overall concentration trends of cis- and trans-1,2-DCE have been generally decreasing in all these wells over the monitoring period of approximately four years.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 14-1
Groundwater Monitoring Summary, IR Site 27 - Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Organic Compounds		Inorganic Compounds	Natural Attenuation Parameters				
				TPH-P as Gasoline (EPA 8015B)	VOCs (EPA 8260B)	Dissolved Metals (EPA 6010B/ 6020A/7470A)	Methane, Ethane, Ethene (RSK SOP 175)	Nitrate, Nitrite, Chloride, Sulfate (EPA9056/300.0)	Alkalinity (EPA 310.1)	Sulfide (EPA 376.2)	Ferrous Iron (Hach 8146)
Groundwater Monitoring Program Wells											
First	15-MW1	Fill-BSU	3.5 - 18.5	X	X	X	X	X	X	X	X
	15-MW2	Fill-BSU	3.3 - 18.3	X	X	X	X	X	X	X	X
	15-MW3	Fill-BSU	2.6 - 17.1	X	X	X	X	X	X	X	X
	27MW06	Fill-BSU	6 - 16	X	X	X	X	X	X	X	
Non-Program Wells, Water Level Only											
First	27MW01	Fill-BSU	6.7 - 16.7	-	-	-	-	-	-	-	-
	27MW02	Fill-BSU	6.6 - 16.6	-	-	-	-	-	-	-	-
	27MW03	Fill-BSU	6.6 - 16.6	-	-	-	-	-	-	-	-
	27MW04	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-
	27MW05	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-
	27MW07	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-
	27MW08	Fill-BSU	6 - 16	-	-	-	-	-	-	-	-

Notes:

Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

\- Well not in analytical program.

Fill - Artificial Fill
BSU - Bay Sediment Unit
USA - Upper San Antonio Formation
Merritt - Merritt Sand

FT. BGS - Feet below ground surface
TPH - Total Petroleum Hydrocarbons
VOCs - Volatile Organic Compounds
(8260B) - U.S. Environmental Protection Agency analytical method
RSK 175 - R.S. Kerr Laboratory Standard Operating Procedure 175

Table 14-2
Summary of Groundwater Level Measurements at IR Site 27
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	15-MW1	11.2	11.02 *	04/11/06	6.6	4.42
		11.2	11.02 *	08/24/05	8.14	2.88
		11.2	11.02 *	02/28/05	8.21	2.81
		11.2	11.02 *	11/08/04	6.72	4.30
		11.2	11.02 *	06/15/04	7.21	3.81
		11.2	11.02 *	03/01/04	7.47	3.55
		11.2	11.02 *	12/03/03	8.21	2.81
		11.2	11.02 *	09/15/03	6.60	4.42
		11.2	11.02 *	06/24/03	7.80	3.22
		11.2	11.02 *	04/09/03	8.46	2.56
		11.2	11.02 *	12/11/02	7.37	3.65
		11.2	11.02 *	09/03/02	6.75	4.27
		11.2	11.02 *	06/19/02	6.57	4.45
First	15-MW2	11.2	10.99 *	04/11/06	6.40	4.59
		11.2	10.99 *	08/24/05	7.94	3.05
		11.2	10.99 *	02/28/05	7.91	3.08
		11.2	10.99 *	11/08/04	6.74	4.25
		11.2	10.99 *	06/15/04	7.10	3.89
		11.2	10.99 *	03/01/04	7.22	3.77
		11.2	10.99 *	12/03/03	8.02	2.97
		11.2	10.99 *	09/15/03	5.52	5.47
		11.2	10.99 *	06/24/03	7.52	3.47
		11.2	10.99 *	04/09/03	8.15	2.84
		11.2	10.99 *	12/11/02	7.23	3.76
		11.2	10.99 *	09/03/02	6.58	4.41
		11.2	10.99 *	06/19/02	6.75	4.24
First	15-MW3	11.6	11.03 *	04/11/06	5.20	5.83
		11.6	11.03 *	08/24/05	5.83	5.20
		11.6	11.03 *	02/28/05	5.55	5.48
		11.6	11.03 *	11/08/04	5.97	5.06
		11.6	11.03 *	06/15/04	6.11	4.92
		11.6	11.03 *	03/01/04	5.55	5.48
		11.6	11.03 *	12/03/03	6.06	4.97
		11.6	11.03 *	09/15/03	6.09	4.94
		11.6	11.03 *	06/24/03	6.05	4.98
		11.6	11.03 *	04/09/03	5.98	5.05
		11.6	11.03 *	12/11/02	6.18	4.85
		11.6	11.03 *	09/03/02	6.16	4.87
		11.6	11.03 *	06/19/02	6.16	4.87
First	15MJ-MW1 ‡	11.1	10.74 *	09/15/03	Abandoned	NC
		11.1	10.74 *	06/24/03	7.65	3.09
		11.1	10.74 *	04/09/03	7.75	2.99
		11.1	10.74 *	12/11/02	7.13	3.61
		11.1	10.74 *	09/03/02	6.25	4.49
		11.1	10.74 *	06/19/02	6.57	4.17
First	27MW01 ‡	11.6	11.27 ***	04/11/06	5.25	6.02
		11.6	11.27 ***	08/24/05	5.75	5.52
		11.6	11.27 ***	02/28/05	5.45	5.82

Table 14-2
Summary of Groundwater Level Measurements at IR Site 27
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	27MW01 ‡	11.6	11.27 ***	11/08/04	5.89	5.38
		11.6	11.27 ***	06/15/04	6.04	5.23
		11.6	11.27 ***	03/02/04	5.86	5.41
First	27MW02 ‡	12.1	11.78 ***	04/11/06	4.65	NC
		12.1	11.78 ***	08/24/05	NM	NC
		12.1	11.78 ***	02/28/05	NM	NC
		12.1	11.78 ***	11/08/04	5.97	5.81
		12.1	11.78 ***	06/15/04	NM	NC
		12.1	11.78 ***	03/02/04	5.60	6.18
First	27MW03 ‡	12.2	11.50 ***	04/11/06	6.25	5.25
		12.2	11.50 ***	08/24/05	7.41	4.09
		12.2	11.50 ***	02/28/05	7.32	4.18
		12.2	11.50 ***	11/08/04	6.84	4.66
		12.2	11.50 ***	06/15/04	7.21	4.29
		12.2	11.50 ***	03/02/04	6.35	5.15
First	27MW04 ‡	10.8	10.29 ***	04/11/06	5.25	5.04
		10.8	10.29 ***	08/24/05	7.06	3.23
		10.8	10.29 ***	02/28/05	6.50	3.79
		10.8	10.29 ***	11/08/04	7.05	3.24
		10.8	10.29 ***	06/15/04	6.38	3.91
		10.8	10.29 ***	03/02/04	5.17	5.12
First	27MW05 ‡	12.8	12.34 ***	04/11/06	4.10	8.24
		12.8	12.34 ***	08/24/05	5.25	7.09
		12.8	12.34 ***	02/28/05	4.70	7.64
		12.8	12.34 ***	11/08/04	5.89	6.45
		12.8	12.34 ***	06/15/04	5.70	6.64
		12.8	12.34 ***	03/02/04	4.97	7.37
First	27MW06	12.5	11.99 ***	04/11/06	4.40	7.59
		12.5	11.99 ***	08/24/05	4.76	7.23
		12.5	11.99 ***	02/28/05	4.65	7.34
		12.5	11.99 ***	11/08/04	5.62	6.37
		12.5	11.99 ***	06/15/04	5.54	6.45
		12.5	11.99 ***	03/02/04	5.21	6.78
First	27MW07 ‡	12.4	11.82 ***	04/11/06	3.60	8.22
		12.4	11.82 ***	08/24/05	4.66	7.16
		12.4	11.82 ***	02/28/05	3.59	8.23
		12.4	11.82 ***	11/08/04	5.19	6.63
		12.4	11.82 ***	06/15/04	5.02	6.80
		12.4	11.82 ***	03/02/04	4.25	7.57
First	27MW08 ‡	12.9	12.58 ***	04/11/06	3.95	8.63
		12.9	12.58 ***	08/24/05	5.04	7.54
		12.9	12.58 ***	02/28/05	4.73	7.85
		12.9	12.58 ***	11/08/04	5.78	6.80
		12.9	12.58 ***	06/15/04	5.47	7.11
		12.9	12.58 ***	03/02/04	5.00	7.58

Notes:

BTOC = below top of casing

msl = mean sea level

NF = Monitoring well not found

NM = Water level not measured

NC = Water elevation not calculated.

* = Surveyed to NGVD 29 by Calvada Surveying in September 2002. Subsequently converted to NAVD 88 by Shaw Environmental, Inc. using the Corpscon software.

*** = Surveyed with GPS

‡ = Well used only for water level measurements. Not scheduled for sampling in the monitoring program.

Table 14-3

Groundwater Sample Analytical Results at IR Site 27: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TPH		Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
			TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
		MCL:	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	15MJ-MW1	2003 02 (Summer)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 03 (Fall)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
		2002 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	15-MW1	2006 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.20 J**	< 0.50	**0.40 J**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**3.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.30 J**	< 0.50	**1.9**	**0.40 J**	**1.9**	< 0.50	< 0.50	**2.0**
		2005 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.4 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**0.40 J**	< 0.50	**0.50 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**4.5**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**1.3**	**0.30 J**	**1.1**	< 0.50	< 0.50	**1.1**
		2004 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	**0.40 J**	**1.4**	< 0.50	< 0.50	**3.4**
		2004 01 (Spring)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.71 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.31 J**	< 1.0	**0.32 J**	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	**4.9 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.5**	**0.65 J**	**1.3**	< 0.50	< 1.0	**4.3**
		2003 03 (Fall)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**4.9 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.5**	**0.74 J**	**1.4**	< 0.50	< 1.0	**8.5**
		2003 02 (Summer)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**2.5 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.9**	**0.67 J**	**1.9**	< 0.50	< 1.0	**7.8**
		2003 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**2.6**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**2.7**	**0.70**	**2.6**	< 0.50	< 0.50	**5.0**
		2002 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**2.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50 UJ	< 0.50	< 0.50	**2.1**	**0.60**	**1.4**	< 0.50	< 0.50	**11.0**
		2002 03 (Fall)	< 50.0	< 50.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**2.7**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.6**	**1.0**	**2.5**	< 0.50	< 0.50	**11.0**
		2002 02 (Summer)	< 50.0	< 50.0	< 0.50	**0.20 J**	< 0.50	< 0.50	< 0.50	< 2.0	**7.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.20 J**	< 0.50	**3.4**	**3.3**	**3.3**	< 0.50	< 0.50	**16.0**
	15-MW2	2006 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	**1.8**	**6.4**	< 0.50	**3.5**	**0.10 J**	**0.70**	< 0.50	< 0.50	< 0.50
		2005 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.5**	**6.7**	< 0.50	**3.8**	< 0.50	**0.70**	< 0.50	< 0.50	< 0.50
		2005 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.1 J**	**7.3 J**	< 0.50	**5.0 J**	< 0.50	**0.90 J**	< 0.50	< 0.50	< 0.50
		2004 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**0.90**	**3.2**	< 0.50	**2.4**	< 0.50	**0.60**	< 0.50	< 0.50	< 0.50
		2004 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**1.0**	**3.0**	< 0.50	**3.3**	< 0.50	**0.70**	< 0.50	< 0.50	**0.10 J**
		2004 01 (Spring)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	**4.2**	< 1.0	**3.1**	< 1.0	**0.81 J**	< 0.50	< 1.0	< 0.50
		2003 04 (Winter)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0 UJ	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.90 J**	**2.7**	< 1.0	**4.0**	< 1.0	**0.65 J**	< 0.50	< 1.0	**0.32 J**
		2003 03 (Fall)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.5**	**4.8**	< 1.0	**5.8**	**0.27 J**	**0.98 J**	< 0.50	< 1.0	< 0.50
		2003 02 (Summer)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.99 J**	**3.0**	< 1.0	**4.4**	< 1.0	**0.70 J**	< 0.50	< 1.0	< 0.50
		2003 01 (Spring)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.1**	**10.0**	**0.20 J**	**12.0**	< 0.50	**1.4**	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**3.5**	**11.0**	< 0.50	**16.0**	**0.80**	**1.3**	< 0.50	< 0.50	**6.9**
		2002 03 (Fall)	**40.0 J**	**40.0**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.3**	**7.1**	**0.20 J**	**16.0**	**0.20 J**	**1.3**	< 0.50	< 0.50	**0.50**
		2002 02 (Summer)	< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	**2.0**	**5.6**	< 0.50	**15.0**	< 0.50	**1.1**	< 0.50	< 0.50	**0.50 J**
	15-MW3	2006 01 (Spring)	< 50.0	< 50.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	**1.4**	< 0.50	< 0.50	< 0.50	< 0.50	**0.10 J**	**7.2**	**0.40 J**	**17.0**	**3.1**	**2.0**	< 0.50	< 0.50	**49.0**
		2005 02 (Summer)	< 50.0	< 50.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**3.2**	**0.90**	**0.70**	< 0.50	< 0.50	**0.20 J**	**3.4**	< 0.50	**25.0**	**3.5**	**0.90**	< 0.50	< 0.50	**1.7**
		2005 01 (Spring)	< 50.0	< 50.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**7.4 J**	**0.10 J**	< 0.50	< 0.50	< 0.50	**0.20 J**	**7.7 J**	**0.20 J**	**21.0 J**	**4.1 J**	**1.5 J**	< 0.50	< 0.50	**19.0 J**
		2004 04 (Winter)	**37.0 J**	**37.0**	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**38.0**	**0.20 J**	**0.10 J**	< 0.50	< 0.50	< 0.50	**3.5**	**0.20 J**	**75.0**	**13.0**	**1.9**	< 0.50	< 0.50	**1.2**
		2004 02 (Summer)	< 50.0	< 50.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**23.0**	**1.0**	**0.90**	< 0.50	< 0.50	**0.20 J**	**3.8**	**0.20 J**	**47.0**	**8.6**	**1.3**	< 0.50	< 0.50	**1.9**
		2004 01 (Spring)	< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**2.1 J**	**0.69 J**	**0.82 J**	< 1.0	< 1.0	< 1.0	**5.8**	< 1.0	**21.0**	**3.0**	**0.73 J**	< 0.50	< 1.0	**2.4**
		2003 04 (Winter)	< 50.0	< 50.0	**0.31 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.71 J**	**1.0**	**0.83 J**	< 1.0	< 1.0	< 1.0	**5.1**	**0.29 J**	**98.0**	**17.0**	**1.9**	< 0.50	< 1.0	**1.5**

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Innovative Technical Solutions, Inc.

Table 14-3

Groundwater Sample Analytical Results at IR Site 27: Total Petroleum Hydrocarbons and Volatile Organic Compounds

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				TPH		Commonly Detected Aromatic Compounds											Commonly Detected Chlorinated Hydrocarbons									
				TPH-Gasoline	Total TPH (Calculated)	Benzene	Toluene	Ethylbenzene	M,P-xylenes	O-xylene	Naphthalene	Methyl tert-butyl ether (MTBE)	Chlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Tetrachloroethene (PCE)	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
			MCL:	NA	NA	1.0	150	300	1,750	1,750	NA	13.0	70.0	600	NA	5.0	5.0	5.0	6.0	6.0	10.0	5.0	0.50	200	0.50
			BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event	AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	15-MW3	2003 03 (Fall)		< 50.0	< 50.0	**0.36 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.85 J**	**1.6**	**1.5**	< 1.0	< 1.0	< 1.0	**4.7**	**0.30 J**	**78.0**	**18.0**	**2.1**	< 0.50	< 1.0	**3.1**
		2003 02 (Summer)		< 50.0	< 50.0	**0.38 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.47 J**	**2.2**	**1.9**	< 1.0	< 1.0	< 1.0	**3.8**	< 1.0	**56.0**	**9.9**	**1.7**	< 0.50	< 1.0	**2.6**
		2003 01 (Spring)		< 54.0	< 54.0	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.40 J**	**1.5**	**1.4**	< 0.50	< 0.50	**0.20 J**	**5.7**	**0.20 J**	**36.0**	**5.1**	**1.5**	< 0.50	< 0.50	< 0.50
		2002 04 (Winter)		< 50.0	< 50.0	**0.30 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**0.50 J**	**1.1**	**0.80**	< 0.50	< 0.50	< 0.50 J	**8.3**	**0.30 J**	**54.0**	**11.0**	**1.7**	< 0.50	< 0.50	**3.6**
		2002 03 (Fall)		**46.0 J**	**46.0**	**0.50 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.70	**1.4**	**0.80**	< 0.50	< 0.50	< 0.50	**6.0**	**0.30 J**	**85.0**	**17.0**	**2.2**	< 0.50	< 0.50	**3.2**
		2002 02 (Summer)		< 54.0	< 54.0	**0.40 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**1.4**	**1.0**	< 0.50	< 0.50	< 0.50	**6.0**	**0.40 J**	**73.0**	**15.0**	**2.1**	< 0.50	< 0.50	**1.7**
	27MW06	2006 01 (Spring)		< 50.0	< 50.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0 UJ	< 0.50	**0.30 J**	**1.2**	< 0.50	**0.20 J**	< 0.50	**4.1**	< 0.50	**5.7**	**0.80**	**0.20 J**	< 0.50	< 0.50	**4.7**
		2005 02 (Summer)		< 50.0	< 50.0	**0.20 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	**1.0**	**1.4**	**3.7**	< 0.50	**0.40 J**	**0.60**	**0.80**	< 0.50	**7.8**	**1.8**	**0.60**	< 0.50	< 0.50	**9.9**
		2005 01 (Spring)		< 50.0	< 50.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	**1.3**	< 0.50	**0.20 J**	< 0.50	**3.0**	< 0.50	**6.6**	**0.60**	**0.30 J**	< 0.50	< 0.50	**1.4**
		2004 04 (Winter)		< 50.0	< 50.0	**0.10 J**	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.40 J**	**1.6**	< 0.50	**0.20 J**	< 0.50	**2.9**	< 0.50	**12.0**	**0.80**	**0.30 J**	< 0.50	< 0.50	**1.0**
		2004 02 (Summer)		< 50.0	< 50.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.0	< 0.50	**0.30 J**	**1.0**	< 0.50	< 0.50	< 0.50	**2.4**	< 0.50	**9.2 J**	**0.70**	< 0.50	< 0.50	< 0.50	**8.7**
		2004 01 (Spring)		< 50.0	< 50.0	< 0.50	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 5.0	**0.33 J**	**1.3**	< 1.0	< 1.0	< 1.0	**2.7**	< 1.0	**8.3**	**0.74 J**	**0.26 J**	< 0.50	< 1.0	**14.0**

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 14-4

Groundwater Sample Analytical Results at IR Site 27: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Metals of Potential Concern																		Common Rock-forming Elements					
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
		Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	**6.0**	**10.0**	**1,000**	**4.0**	**5.0**	**50.0**	**NA**	**1,000**	**15.0**	**NA**	**2.0**	**NA**	**100**	**50.0**	**NA**	**2.0**	**NA**	**NA**	**1,000**	**NA**	**NA**	**NA**	**NA**	**NA**
		BV:	**11.8**	**8.0**	**123**	**1.0**	**1.3**	**3.4**	**4.6**	**7.5**	**1.3**	**1,171**	**0.10**	**5.6**	**7.4**	**1.9**	**1.6**	**2.3**	**8.4**	**10.5**	**96.2**	**1,624**	**380**	**103,358**	**40,552**	**937,369**
Well Number	**Event**	**AWQC:**	**NA**	**36.0**	**NA**	**NA**	**8.8**	**NA**	**NA**	**3.1**	**8.1**	**NA**	**0.94**	**NA**	**8.2**	**71.0**	**1.9**	**NA**	**NA**	**81.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
FWBZ	15MJ-MW1	2003 02 (Summer)	< 50.0	**9.1 J**	29.4 J	< 4.0	0.86 J	< 10.0	1.6 J	2.7 J	< 10.0	< 10.0	-	**12.3 J**	2.3 J	< 20.0	< 10.0	< 50.0	< 50.0	< 20.0	< 200	< 100	341	1,060	371 J	7,290 J
		2002 04 (Winter)	0.33 J	< 5.0	26.0	< 2.0	< 5.0	1.1 J	1.1 J	5.9 J	< 3.0	0.099 J	< 0.20	**8.0 J**	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.0	1.9 J	< 20.0	66.0 J	1,100	320	1,000	320	8,300
		2002 02 (Summer)	< 50.0	< 5.0	31.0	< 2.0	0.16 J	2.0 J	< 10.0	7.1 J	< 3.0	4.5 J	< 0.20	< 20.0	5.1 J	< 5.0	< 5.0	< 2.0	3.4 J	< 20.0	< 100	770	360	1,100	310	9,100
	15-MW1	2006 01 (Spring)	< 1.0	1.6 J	-	0.43 J	**1.8 J**	< 10.0	-	1.5 J	0.14 J	-	< 0.20	-	0.91 J	< 5.0	0.17 J	< 5.0	-	0.91 J	-	-	-	-	-	-
		2005 02 (Summer)	0.90 J	**16.0 J**	77.0	< 2.0	< 5.0	< 10.0	0.37 J	4.8 J	< 3.0	39.0	< 0.20	1.6 J	3.2 J	< 5.0	< 5.0	< 5.0	6.8 J	**11.0 J**	79.0 J	< 100	75.0	200	59.0	1,700
		2004 04 (Winter)	0.11 J	< 5.0	**180**	< 2.0	< 5.0	**4.7 J**	0.41 J	< 10.0	**80.0 J**	24.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	4.2 J	< 20.0	< 100	< 100	110	330	92.0	2,600
		2004 02 (Summer)	0.16 J	4.7 J	**160**	< 1.0	< 5.0	1.4 J	0.39 J	2.0	0.095 J	190	**0.11 J**	3.4 J	3.5	< 5.0	< 1.0	< 5.0	4.8 J	< 1.0	< 50.0	250	80.0	220	60.0	2,200
		2003 04 (Winter)	< 5.0	< 50.0	**226**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	239	< 0.40	**11.3 J**	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	89.1 J	185	45.9	1,840
		2003 02 (Summer)	< 50.0	< 50.0	113 J	< 4.0	< 5.0	1.2 J	< 10.0	3.1 J	< 10.0	60.0 J	-	**7.8 J**	5.4 J	< 20.0	< 10.0	< 50.0	6.3 J	2.3 J	< 200	< 100	59.8	133	78.0 J	1,000 J
		2002 04 (Winter)	0.13 J	7.1	**320**	< 2.0	< 5.0	1.2 J	0.51 J	1.5 J	< 3.0	200	< 0.20	3.5 J	< 20.0 UJ	**8.8 J**	< 5.0	< 2.0	2.5 J	< 20.0	4.7 J	400	95.0	200	44.0	1,700
		2002 02 (Summer)	< 50.0	5.3	82.0	< 2.0	< 5.0	**3.7 J**	< 10.0	0.92 J	< 3.0	120	0.080 J	< 20.0	3.8 J	**3.6 J**	< 5.0	< 2.0	4.2 J	0.54 J	< 100	75.0 J	31.0	49.0	15.0	740
	15-MW2	2006 01 (Spring)	< 1.0	1.7 J	-	0.34 J	0.95 J	< 10.0	-	1.2 J	< 3.0	-	< 0.20	-	4.5 J	< 5.0	< 5.0	< 5.0	-	1.5 J	-	-	-	-	-	-
		2005 02 (Summer)	0.63 J	6.8	72.0	< 2.0	< 5.0	< 10.0	0.19 J	3.2 J	< 3.0	< 10.0	< 0.20	< 20.0	7.0 J	< 5.0	< 5.0	< 5.0	4.0 J	7.4 J	**100 J**	< 100	75.0	200	71.0	2,200
		2004 04 (Winter)	0.17 J	< 5.0	**140**	< 2.0	< 5.0	< 10.0	0.52 J	< 10.0	**81.0 J**	< 10.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	< 100	170	450	130	3,300
		2004 02 (Summer)	0.15 J	< 5.0	73.0	< 1.0	< 5.0	0.62 J	0.20 J	1.2	0.072 J	< 10.0	< 0.20	0.57 J	**8.7**	< 5.0	< 1.0	< 5.0	3.3 J	< 1.0	< 50.0	290	97.0	310	93.0	2,800
		2003 04 (Winter)	< 5.0	< 50.0	**153**	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	5.4 J	< 0.40	**11.3 J**	< 20.0	< 20.0	< 10.0	< 10.0	< 50.0	< 20.0	< 200	< 100	125 J	342	119	3,070
		2003 02 (Summer)	< 50.0	< 50.0	92.2 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	-	< 50.0	**11.1 J**	< 20.0	< 10.0	< 50.0	1.7 J	< 20.0	< 200	< 100	119	326	91.0 J	1,670 J
		2002 04 (Winter)	0.097 J	5.3	**180**	< 2.0	< 5.0	0.51 J	0.33 J	2.3 J	< 3.0	2.0 J	**0.11 J**	< 20.0	< 20.0 UJ	**11.0 J**	< 5.0	< 2.0	5.1 J	< 20.0	4.8 J	410	120	310	95.0	2,300
		2002 02 (Summer)	< 50.0	5.7	**370**	< 2.0	< 5.0	2.0 J	< 10.0	1.7 J	< 3.0	5.8 J	< 0.20	< 20.0	7.2 J	**11.0**	< 5.0	< 2.0	4.6 J	< 20.0	< 100	280	120	290	76.0	1,800
	15-MW3	2006 01 (Spring)	< 1.0	6.8	-	< 2.0	0.27 J	< 10.0	-	1.1 J	0.15 J	-	< 0.20	-	1.8 J	< 5.0	< 5.0	< 5.0	-	6.2 J	-	-	-	-	-	-
		2005 02 (Summer)	0.33 J	**20.0**	64.0	< 2.0	< 5.0	1.3 J	0.38 J	< 10.0	< 3.0	260	< 0.20	< 20.0	3.0 J	< 5.0	< 5.0	< 5.0	4.0 J	5.4 J	< 100	390	57.0	140	11.0	180
		2004 04 (Winter)	0.096 J	**16.0**	75.0	< 2.0	< 5.0	**5.8 J**	0.42 J	2.7 J	< 3.0	460	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	3.8 J	**12.0 J**	< 100	230	89.0	230	15.0	210
		2004 02 (Summer)	0.20 J	**19.0**	49.0	< 1.0	< 5.0	1.5 J	0.34 J	2.8	0.19 J	260	< 0.20	2.7 J	3.7	< 5.0	< 1.0	< 5.0	2.0 J	**25.0**	< 50.0	370	49.0	150	13.0	250
		2003 04 (Winter)	< 5.0	**23.9 J**	70.6 J	< 4.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	368	< 0.40	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	< 50.0	< 20.0	< 200	142	52.4 J	189	16.7	297
		2003 02 (Summer)	< 50.0	**22.6 J**	71.5 J	< 4.0	< 5.0	3.3 J	< 10.0	1.4 J	< 10.0	329 J	-	< 50.0	< 20.0	< 20.0	< 10.0	< 5.0	5.9 J	**12.0 J**	< 200	233 J	45.2	170	21.4 J	290 J
		2002 04 (Winter)	0.12 J	**18.0**	78.0	< 2.0	< 5.0	2.2 J	0.59 J	1.3 J	< 3.0	410	< 0.20	2.9 J	< 20.0 UJ	< 5.0 UJ	< 5.0	< 2.2	3.4 J	0.59 J	6.4 J	230	49.0	170	15.0	250
		2002 02 (Summer)	< 50.0	**20.0**	85.0	< 2.0	< 5.0	**4.1 J**	< 10.0	1.4 J	< 3.0	290	< 0.20	< 20.0	3.6 J	< 5.0	< 5.0	< 2.0	6.3 J	8.0 J	4.6 J	120	34.0	120	13.0	260
	27MW06	2006 01 (Spring)	< 1.0	3.8 J	-	< 2.0	1.1 J	**11.0**	-	2.1 J	**1.5 J**	-	< 0.20	-	1.2 J	< 5.0	0.23 J	< 5.0	-	**200**	-	-	-	-	-	-
		2005 02 (Summer)	0.44 J	**18.0**	38.0	< 2.0	< 5.0	1.4 J	0.098 J	< 10.0	< 3.0	42.0	< 0.20	3.7 J	2.1 J	< 5.0	< 5.0	< 5.0	4.1 J	< 20.0	< 100	33.0 J	11.0	5.5	11.0	150
		2004 04 (Winter)	0.18 J	6.3	31.0	< 2.0	< 5.0	**3.9 J**	< 1.0	< 10.0	< 3.0	71.0	< 0.20	< 20.0	< 20.0	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	< 100	22.0	14.0	7.9	150
		2004 02 (Summer)	0.18 J	4.7	29.0	< 1.0	< 1.0	1.9	< 1.0	0.39 J	0.10 J	80.0	< 0.20	2.2 J	< 20.0	< 1.0	< 1.0	< 1.0	2.5 J	2.6	4.0 J	< 100	22.0 J	14.0	7.5	120

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Result exceeds background value (BV)

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Table 14-5
Groundwater Sampling Field Parameters at IR Site 27
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	15-MW1	05/03/06	7.10	4.39	72
		09/14/05	7.29	4.24	91
		03/21/05	7.44	3.91	90
		12/03/04	7.07	0.24	244
		07/01/04	7.19	0.54	-94
		03/03/04	7.03	4.35	187
		12/05/03	7.38	0.18	3.0
		09/23/03	7.46	0.15	-162
		07/03/03	7.55	0.46	212
		04/17/03	7.75	1.20	248
		12/17/02	8.05	0.00	42
		09/06/02	7.44	3.90	216
		06/19/02	7.84	1.83	253.7
First	15-MW2	05/03/06	6.77	3.45	68
		09/13/05	6.26	3.60	34
		03/21/05	6.96	4.81	135
		12/03/04	6.47	3.99	217
		07/01/04	6.63	3.66	0.0
		03/04/04	6.69	4.20	200
		12/05/03	6.89	0.47	79
		09/23/03	6.78	2.61	-131
		07/03/03	6.83	3.43	285
		04/16/03	6.92	1.91	229
		12/17/02	7.73	0.11	44
		09/05/02	6.75	***22.90***	***985***
		06/19/02	6.82	2.30	230
First	15-MW3	05/03/06	6.69	0.45	-81
		09/14/05	6.84	0.56	-153
		03/21/05	7.38	0.00	-109
		12/03/04	6.67	0.15	134
		07/01/04	7.03	0.30	-131
		03/03/04	7.02	0.59	176
		12/05/03	7.22	0.19	-23
		09/29/03	7.25	0.16	-21
		07/03/03	7.57	0.17	111
		04/16/03	7.66	0.21	209
		12/17/02	6.91	2.10	1.5
		09/05/02	7.39	1.50	-325
		06/19/02	7.54	0.85	59.1
First	27MW06	05/03/06	7.49	3.28	66
		09/14/05	7.81	3.91	-54
		03/21/05	7.90	3.09	25
		12/03/04	7.32	2.74	198
		07/06/04	7.15	3.15	19
		03/03/04	7.46	2.56	207

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.

Table 14-5
Groundwater Sampling Field Parameters at IR Site 27
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)

mg/L = milligrams per liter

ORP = oxidation-reduction potential

mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:

pH: between 6 and 8.5 standard units

DO: below approximately 9 mg/L

ORP: between approximately 600 and -400 mV

Table 14-6
Groundwater Sample Analytical Results at IR Site 27: Natural Attenuation Parameters
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			Dissolved Gases			Anions				Alkalinity				Sulfide
			Ethane	Ethene	Methane	Nitrate	Nitrite	Chloride	Sulfate (as SO4)	Alkalinity	Alkalinity, bicarbonate	Alkalinity, carbonate	Alkalinity, hydroxide	Sulfide
		Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
		MCL:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		BV:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well Number	Event AWQC:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FWBZ	15MJ-MW1	2003 02 (Summer)	< 0.0030	< 0.0030	< 0.0030	-	-	**15,400**	**1,950**	**104**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	< 0.010	< 1.0	< 1.0	**16,000**	**2,000**	**140**	**140**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.50 J	< 0.50	**16,000**	**2,300**	**99.0**	**99.0**	< 1.0	< 1.0	< 0.040
	15-MW1	2006 01 (Spring)	< 0.0050	< 0.0050	< 0.0050	**0.46 J**	< 1.0	**8,400**	**1,100**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.11**	**0.15 J**	< 0.50	**3,100**	**430**	**470**	**470**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.020**	< 0.50	< 0.50	**4,700**	**630**	**400**	**400**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.14**	**0.31**	< 0.50	**3,300**	**420**	**440**	**440**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.065**	**0.27**	< 1.0	**2,220**	**315**	**478**	**478**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.090**	**0.86 J**	-	**1,730**	**193**	**509**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.064**	< 0.25	< 0.25	**2,800**	**350**	**460**	**460**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	**0.050 J**	< 0.050	**910**	**110**	**610**	**610**	< 1.0	< 1.0	< 0.040
	15-MW2	2006 01 (Spring)	< 0.0050	< 0.0050	**0.0050**	**0.13 J**	< 0.50	**2,800**	**460**	**190**	**190**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	< 0.0050	**0.12 J**	< 0.50	**3,700**	**510**	**200**	**200**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	< 0.0050	< 0.50	< 1.0	**5,700**	**860**	**160**	**160**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.50	**4,300**	**600**	**250**	**250**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.018**	**3.6**	< 1.0	**4,530**	**628**	**197**	**197**	< 5.0	-	< 1.0
		2003 02 (Summer)	< 0.0030	< 0.0030	**0.0038**	< 0.20 UJ	-	**4,830**	**588**	**199**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.11**	< 0.25	< 0.25	**3,900**	**540**	**210**	**210**	< 1.0	< 1.0	**0.23**
		2002 02 (Summer)	< 0.010	< 0.010	< 0.010	< 0.25	< 0.25	**3,800**	**570**	**200**	**200**	< 1.0	< 1.0	< 0.040
	15-MW3	2006 01 (Spring)	< 0.0050	**0.0030 J**	**0.46**	< 0.050	< 0.050	**64.0**	**130**	**440**	**440**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.23**	< 0.050	< 0.050	**56.0**	**77.0**	**500**	**500**	< 1.0	< 1.0	< 0.040
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.19**	< 0.050	< 0.050	**70.0**	**110**	**530**	**530**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.17**	**0.37**	< 0.050	**57.0**	**87.0**	**530**	**530**	< 1.0	< 1.0	< 0.040
		2003 04 (Winter)	< 0.0030	< 0.0030	**0.16**	< 0.20	< 0.20	**79.6 J**	**81.8**	**551**	**551**	< 5.0	-	< 1.0
		2003 02 (Summer)	**0.0011 J**	< 0.0030	**0.18**	**0.13 J**	< 0.20	**83.4**	**72.9**	**511**	-	-	-	< 1.0
		2002 04 (Winter)	< 0.010	< 0.010	**0.11**	< 0.050	< 0.050	**70.0**	**91.0**	**490**	**490**	< 1.0	< 1.0	< 0.040
		2002 02 (Summer)	< 0.010	< 0.010	**0.21**	< 0.050	< 0.050	**68.0**	**95.0**	**530**	**530**	< 1.0	< 1.0	< 0.040
	27MW06	2006 01 (Spring)	< 0.0050	< 0.0050	**0.093**	**0.99**	< 0.050	**56.0**	**35.0**	**150**	**150**	< 1.0	< 1.0	< 0.040
		2005 02 (Summer)	< 0.0050	< 0.0050	**0.32**	**0.42**	< 0.050	**52.0**	**45.0**	**800**	**800**	< 1.0	< 1.0	**0.050**
		2004 04 (Winter)	< 0.0050	< 0.0050	**0.15**	**0.52**	< 0.050	**130**	**39.0**	**210**	**210**	< 1.0	< 1.0	< 0.040
		2004 02 (Summer)	< 0.010	< 0.010	**0.15**	**0.45**	< 0.050	**110**	**33.0**	**230**	**230**	< 1.0	< 1.0	< 0.040

Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 14-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 27

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 27 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	4	0.70 J	15-MW1	14 Sep 2005	3.4 J	15-MW2	2004 02 (Summer)
Benzene (UG/L)	2	4	0.20 J	15-MW3	14 Sep 2005	0.50 J	15-MW3	2002 03 (Fall)
Tetrachloroethene (PCE) (UG/L)	3	4	1.8	15-MW2	03 May 2006	3.5	15-MW2	2002 04 (Winter)
Trichloroethene (UG/L)	4	4	7.2	15-MW3	03 May 2006	11.0	15-MW2	2002 04 (Winter)
1,1-Dichloroethene (UG/L)	1	4	0.40 J	15-MW3	03 May 2006	0.40 J	15-MW3	2002 02 (Summer)
cis-1,2-Dichloroethene (UG/L)	4	4	25.0	15-MW3	14 Sep 2005	98.0	15-MW3	2003 04 (Winter)
trans-1,2-Dichloroethene (UG/L)	4	4	3.5	15-MW3	14 Sep 2005	18.0	15-MW3	2003 03 (Fall)
1,1-Dichloroethane (UG/L)	4	4	2.0	15-MW3	03 May 2006	3.3	15-MW1	2002 02 (Summer)
Methyl tert-butyl ether (MTBE) (UG/L)	4	4	3.7	15-MW1	14 Sep 2005	38.0	15-MW3	2004 04 (Winter)
Chlorobenzene (UG/L)	2	4	1.4	27MW06	14 Sep 2005	2.2	15-MW3	2003 02 (Summer)
1,2-Dichlorobenzene (UG/L)	2	4	3.7	27MW06	14 Sep 2005	1.9	15-MW3	2003 02 (Summer)
Vinyl Chloride (UG/L)	3	4	49.0	15-MW3	03 May 2006	19.0 J	15-MW3	2005 01 (Spring)
1,4-Dichlorobenzene (UG/L)	1	4	0.40 J	27MW06	14 Sep 2005	0.20 J	27MW06	2005 01 (Spring)
Methyl ethyl ketone (MEK) (UG/L)	1	4	1.5 J	15-MW3	14 Sep 2005	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 14-7

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 27

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 27 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	4	4	0.90 J	15-MW1	14 Sep 2005	0.33 J	15MJ-MW1	2002 04 (Winter)
Arsenic (UG/L)	4	4	20.0	15-MW3	14 Sep 2005	23.9 J	15-MW3	2003 04 (Winter)
Barium (UG/L)	4	4	77.0	15-MW1	14 Sep 2005	370	15-MW2	2002 02 (Summer)
Beryllium (UG/L)	2	4	0.43 J	15-MW1	03 May 2006	--	NA	NA
Cadmium (UG/L)	4	4	1.8 J	15-MW1	03 May 2006	0.86 J	15MJ-MW1	2003 02 (Summer)
Chromium (UG/L)	2	4	11.0	27MW06	03 May 2006	5.8 J	15-MW3	2004 04 (Winter)
Cobalt (UG/L)	4	4	0.38 J	15-MW3	14 Sep 2005	1.6 J	15MJ-MW1	2003 02 (Summer)
Copper (UG/L)	4	4	4.8 J	15-MW1	14 Sep 2005	7.1 J	15MJ-MW1	2002 02 (Summer)
Lead (UG/L)	3	4	1.5 J	27MW06	03 May 2006	81.0 J	15-MW2	2004 04 (Winter)
Manganese (UG/L)	3	4	260	15-MW3	14 Sep 2005	460	15-MW3	2004 04 (Winter)
Molybdenum (UG/L)	2	4	3.7 J	27MW06	14 Sep 2005	12.3 J	15MJ-MW1	2003 02 (Summer)
Nickel (UG/L)	4	4	7.0 J	15-MW2	13 Sep 2005	11.1 J	15-MW2	2003 02 (Summer)
Silver (UG/L)	2	4	0.23 J	27MW06	03 May 2006	--	NA	NA
Vanadium (UG/L)	4	4	6.8 J	15-MW1	14 Sep 2005	6.3 J	15-MW3	2002 02 (Summer)
Zinc (UG/L)	4	4	200	27MW06	03 May 2006	25.0	15-MW3	2004 02 (Summer)
Aluminum (UG/L)	2	4	100 J	15-MW2	13 Sep 2005	66.0 J	15MJ-MW1	2002 04 (Winter)
Iron (UG/L)	2	4	390	15-MW3	14 Sep 2005	1100	15MJ-MW1	2002 04 (Winter)
Calcium (MG/L)	4	4	75.0	15-MW1	14 Sep 2005	360	15MJ-MW1	2002 02 (Summer)
Magnesium (MG/L)	4	4	200	15-MW1	14 Sep 2005	1100	15MJ-MW1	2002 02 (Summer)
Potassium (MG/L)	4	4	71.0	15-MW2	13 Sep 2005	371 J	15MJ-MW1	2003 02 (Summer)
Sodium (MG/L)	4	4	2200	15-MW2	13 Sep 2005	9100	15MJ-MW1	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

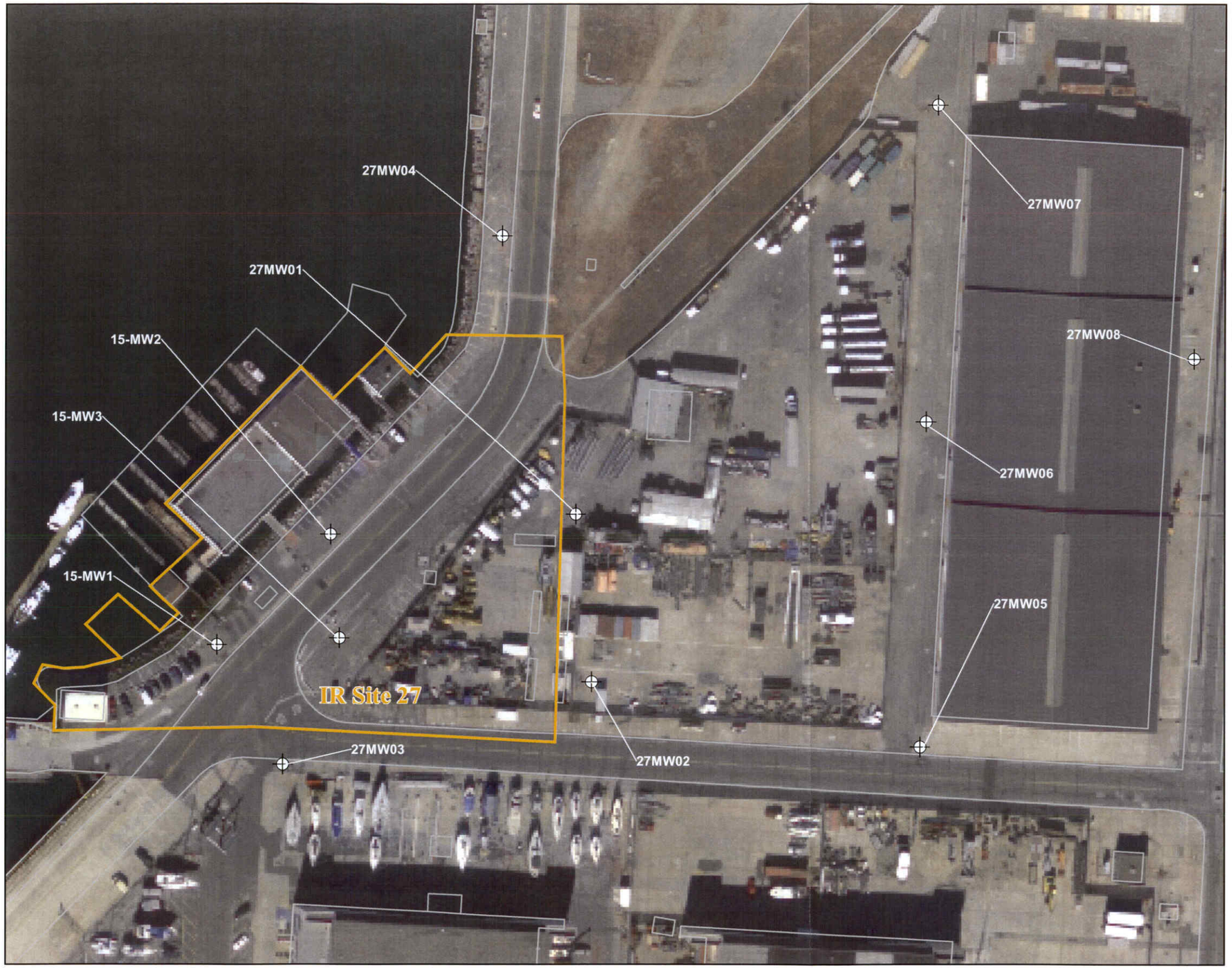
Table 14-7

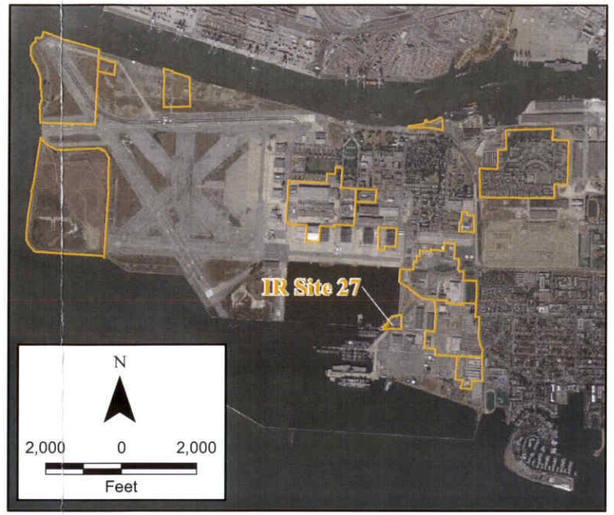
Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 27

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 27 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Alkalinity (MG/L)	4	4	800	27MW06	14 Sep 2005	610	15-MW1	2002 02 (Summer)
Sulfide (MG/L)	1	4	0.050	27MW06	14 Sep 2005	0.23	15-MW2	2002 04 (Winter)
Alkalinity, bicarbonate (MG/L)	4	4	800	27MW06	14 Sep 2005	610	15-MW1	2002 02 (Summer)
Ethene (MG/L)	1	4	0.0030 J	15-MW3	03 May 2006	--	NA	NA
Methane (MG/L)	4	4	0.46	15-MW3	03 May 2006	0.21	15-MW3	2002 02 (Summer)
Nitrate (MG/L)	3	4	0.99	27MW06	03 May 2006	3.6	15-MW2	2003 04 (Winter)
Chloride (MG/L)	4	4	8400	15-MW1	03 May 2006	16000	15MJ-MW1	2002 04 (Winter)
Sulfate (as SO4) (MG/L)	4	4	1100	15-MW1	03 May 2006	2300	15MJ-MW1	2002 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES





Legend

- First Water Bearing Zone (FWBZ) Wells
- IR Site Boundary
- Facility

N

100 0 100

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004 National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Site 27\Annual 27 Location Map_NAD83.mxd

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FIGURE 14-1
IR SITE 27
SITE AND WELL LOCATION MAP

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 27 GW ContourS Spr 2006.mxd

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FIGURE 14-2
IR SITE 27 GROUP
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

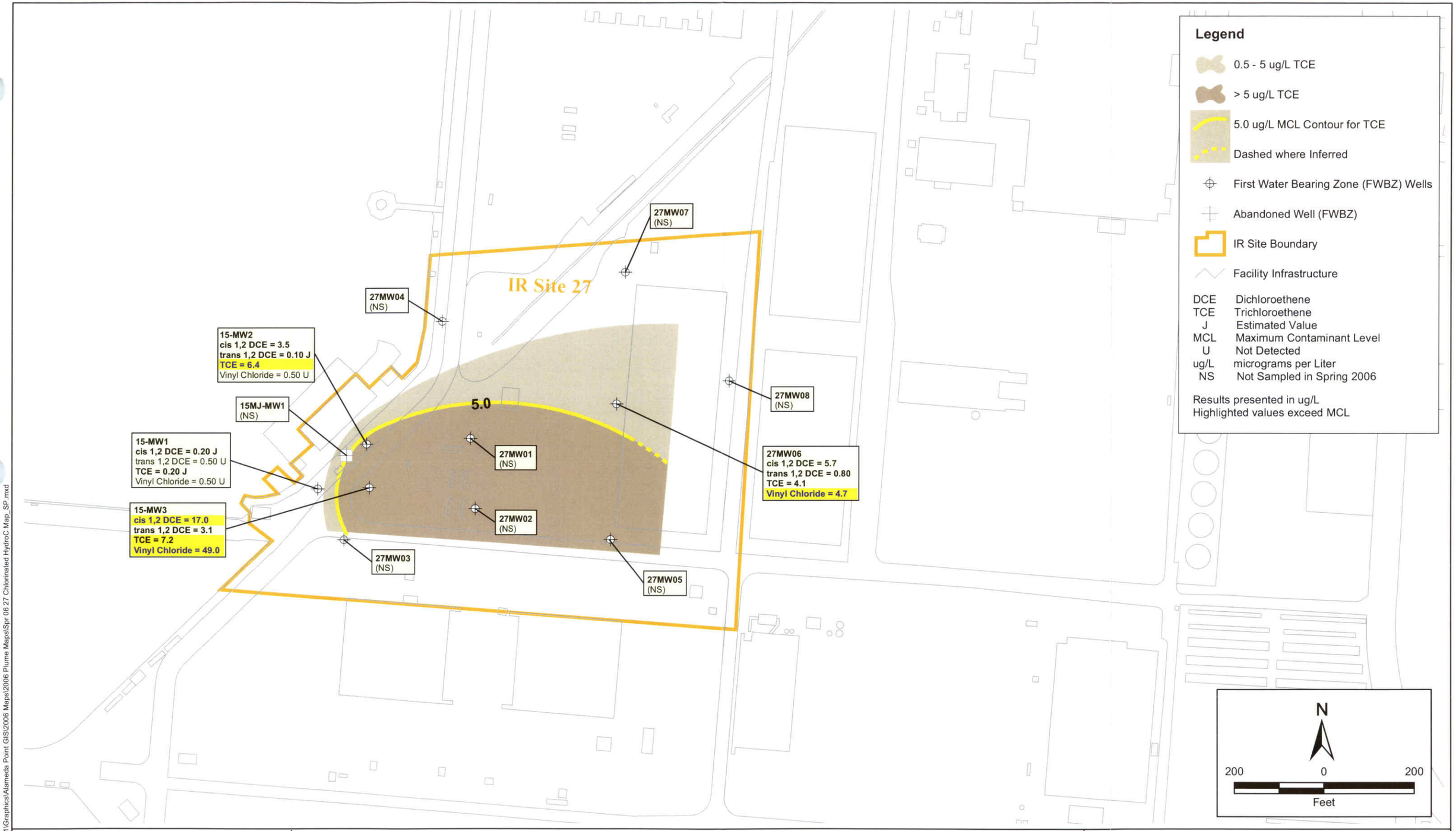

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FIGURE 14-3
IR SITE 27
GROUNDWATER DISTRIBUTION OF SELECTED CHLORINATED HYDROCARBONS IN FWBZ WELLS
SPRING 2006

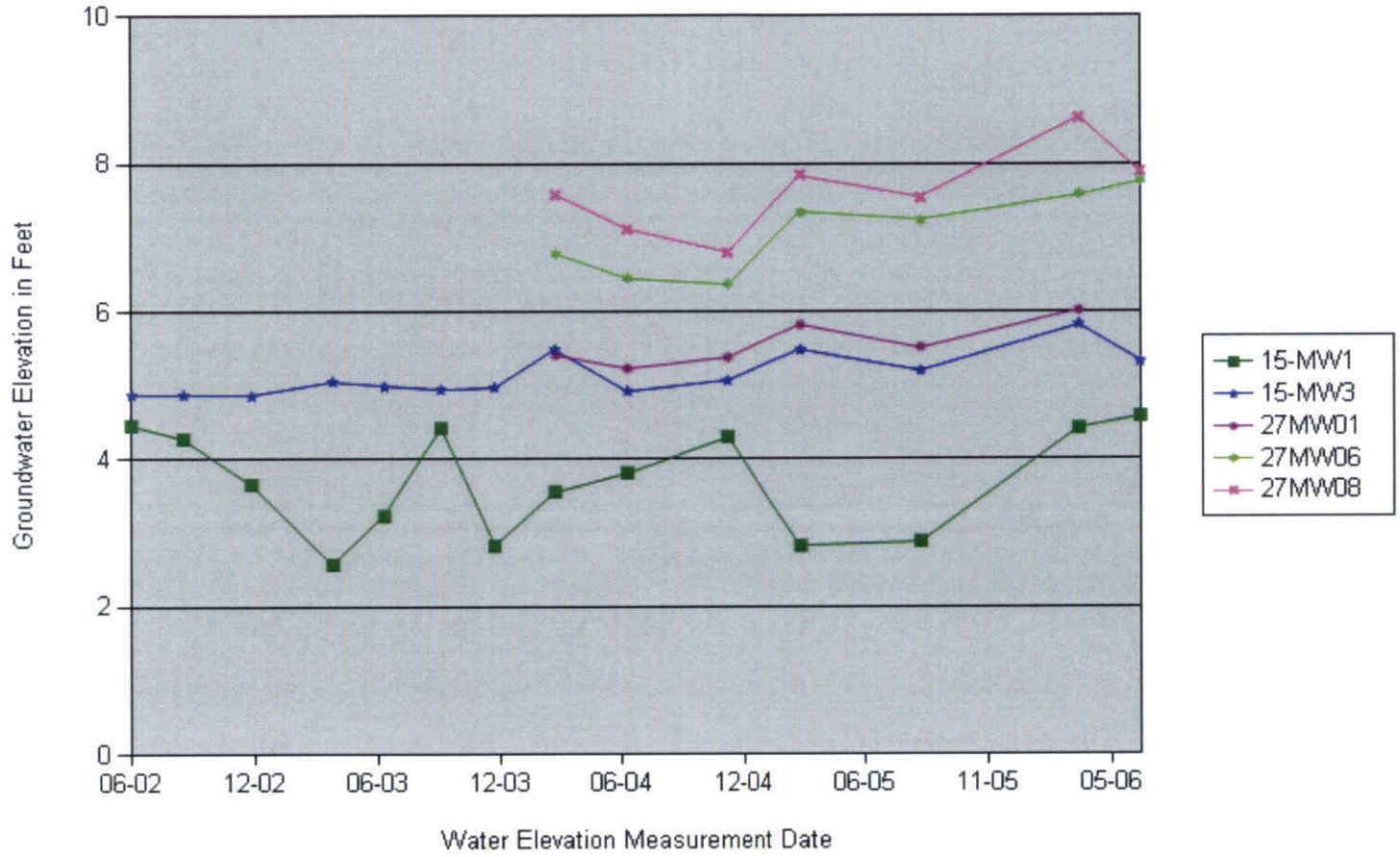

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FIGURE 14-4
TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 27:
WEST-SOUTHWEST ORIENTED FWBZ WELLS
SUMMER 2002 THROUGH SPRING 2006

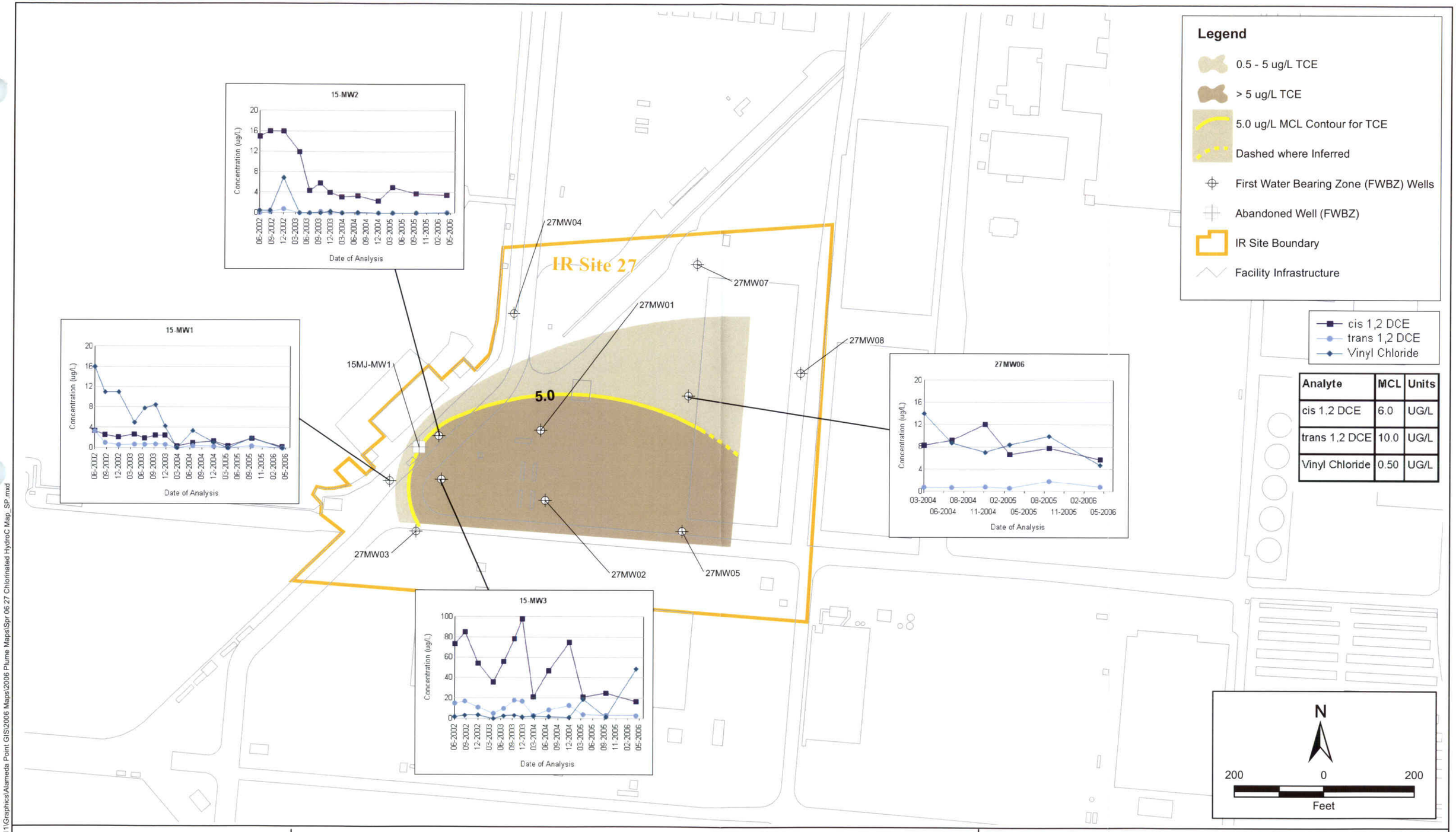

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FIGURE 14-5
IR SITE 27
GROUNDWATER CONCENTRATIONS OF CHLORINATED HYDROCARBONS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

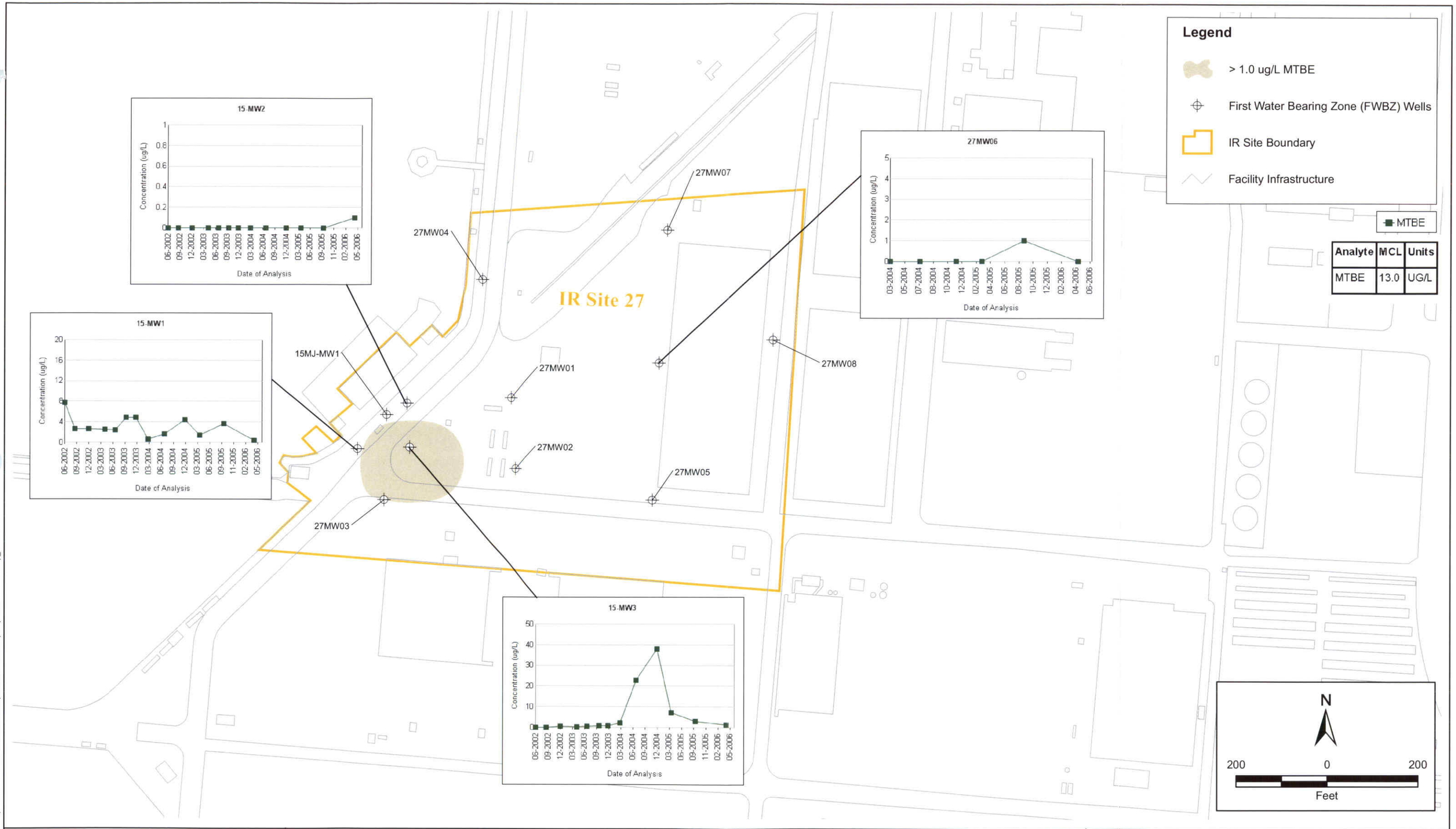

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FIGURE 14-6
IR SITE 27
GROUNDWATER CONCENTRATIONS OF MTBE
OVER TIME IN SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

2002 Projects\11\Graphics\Alameda Point GIS\2006 Maps\2006 Plume Maps\Spr 06 27 MTBE Map_SP.mxd

15.0 INSTALLATION RESTORATION SITE 28

IR Site 28 is a 2.9-acre site along the Oakland Inner Harbor waterfront that currently contains portions of a fenced dog park and a parking lot (Figure 1-2). There are no buildings on the site.

Todd Shipyards Corporation purchased IR Site 28 from the Navy in 1970 and used it as an extension of the adjoining shipyard property until 1983, when the corporation sold its property to Alameda Gateway Limited. IR Site 28 reverted to Navy ownership in 1995 after a dispute arose regarding transfer (Bechtel, 2004).

The two most likely sources of chemicals in soil and groundwater at IR Site 28 are former railroads that crossed the site, and historic shipyard activities at and near the site. Two generations of the Alameda Mole railroad causeway were built across the future location of IR Site 28 and were present from 1883 until at least 1939. The first Alameda Mole railroad causeway, which was built over the Oakland Estuary, burned to the waterline in 1902; debris from burned railroad ties, tracks, trestles, railcars was most likely buried beneath the fill material that forms IR Site 28. The debris could be a source of elevated arsenic from rail-tie preservatives, and activities including shipbuilding and ship repair (1941 through 1983) are also a likely source of elevated metals concentrations. The rebuilt Alameda Mole railroad causeway (approximately 1905 to 1939) is a likely source of elevated arsenic (from rail-tie preservative and from arsenic-containing herbicides used to keep the tracks clear of vegetation). The presence of organo-tin compounds, commonly used as biocides in paints and undercoatings for ocean-going ships, is a strong indicator that metals in soil along the shoreline at IR Site 28 are related to shipyard wastes (Bechtel, 2004).

IR Site 28 became part of the Alameda Basewide Monitoring Program in 2004 and it was first sampled during Summer 2004. Site and well locations are presented on Figure 15-1.

The Summer 2005 through Spring 2006 Basewide Groundwater Monitoring Program at IR Site 28 included sampling and analysis of four FWBZ groundwater monitoring wells. All groundwater monitoring points in the Summer 2005 and Spring 2006 program are listed in Table 15-1 along with their analytical requirements. The table also shows the screened interval,

water-bearing zone and geologic formation for each well. The site and well locations are presented on Figure 15-1.

15.1 GROUNDWATER LEVEL MEASUREMENT SUMMARY

Groundwater level measurements were taken from four groundwater monitoring wells during the Summer 2005 and Spring 2006 sampling events at IR Site 28. The results are presented along with previously collected water-level data in Table 15-2. Groundwater flow directions and gradients are discussed in Section 15.4.1, and trends in groundwater elevation data are discussed in Section 15.4.4.

15.2 ANALYTICAL PARAMETERS

Groundwater monitoring wells at IR Site 28 collected during the Summer 2005 and Spring 2006 sampling events were analyzed for the following parameters:

- Dissolved Metals by EPA Methods 6010B/6020A/7470A
- Hexavalent Chromium by EPA Method 7196A
- Total Dissolved Solids by EPA Method 160.1

Table 14-1 lists all groundwater monitoring wells active in the current Basewide Monitoring Program and their analytical requirements.

15.3 ANALYTICAL RESULTS SUMMARY

The analytical results for the current sampling year (Summer 2005 through Spring 2006) are summarized in the following sections, and listed along with previously obtained analytical data in Tables 15-3 through 15-5 as follows:

- Table 15-3, "Groundwater Sample Analytical Results at IR Site 28: Dissolved Metals, Summer 2004 through Spring 2006"
- Table 15-4, "Groundwater Sampling Field Parameters at IR Site 28, Fall/Winter 2004 through Spring 2006"
- Table 15-5, "Groundwater Sample Analytical Results at IR Site 28: Total Dissolved Solids, Summer 2004 through Spring 2006"

Concentrations of analytes detected above the applicable reporting limit are shown in bold on the tables. Groundwater analytical results presented in the tables are compared to published California and Federal Maximum Contaminant Levels (MCLs) and, where applicable, to National Ambient Water Quality Criteria (AWQCs) promulgated by the federal Environmental Protection Agency. California MCLs are in all cases equal to or more stringent than the Federal MCLs and were used for comparison to the analytical data. Concentrations exceeding MCLs are shown on the tables by yellow highlighting. Concentrations exceeding AWQCs are shown with blue highlighting. Concentrations exceeding both MCLs and AWQCs are shown with light pink highlighting on the tables. The analytical results for dissolved metals were compared to MCLs, AWQCs, and to applicable Background Values as described in *Summary of Background Concentrations in Soil and Groundwater* (TtEMI, 2001b). Concentrations exceeding background values are shown in **bold** text on the metals tables only. On all other tables, **bold** text is used to distinguish positive detections from non-detect results.

15.4 DISCUSSION OF RESULTS

The analytical results detected at concentrations exceeding their respective MCLs in FWBZ wells during the Summer 2005 to Spring 2006 sampling years are summarized in this section.

Arsenic was detected above its MCL of 10 µg/L in all four wells, at a maximum concentration of 440 µg/L at well 28SW04 during the Summer 2005 sampling event. **Nickel** was detected above its MCL of 100 µg/L in one well, 28SW03, at a maximum concentration of 280 µg/L during the Summer 2005 event. **Thallium** was detected above its MCL of 2.0 µg/L in two wells, at a maximum concentration of 6.5 µg/L at well 28SW01, during the Summer 2005 event (Table 15-3).

Arsenic has been consistently detected well above the MCL in well 28SW04 and at lower levels in the remaining wells, since the start of the sampling program. However, the regulatory levels have been significantly decreased and arsenic is now above the MCL in all four wells at Site 28. Nickel has been detected above its MCL at one well, for three of the five sampling events (in Summer and Fall/Winter 2004, and Summer 2005). The thallium results above the MCL are from two wells, but values have fluctuated. Most historical results for thallium at these wells have been below the MCL. Hexavalent chromium was detected only in well 28SW01 during the

Spring 2006 sampling event at a concentration well below the MCL. Field parameters measured during sampling are presented in Table 15-4.

15.4.1 Groundwater Flow Direction and Gradient

Groundwater elevation contours are shown on Figure 15-2. Groundwater flow direction in the FWBZ is generally towards the north at a gradient of approximately 0.02 feet per foot. There are no SWBZ wells in Site 28.

15.4.2 Groundwater Contaminant Distribution

Among IR Site 28 metals results for the current sampling year, arsenic, nickel and thallium exceeded an MCL in one or more wells; copper, nickel, and zinc results were significantly above both AWQC and Alameda basewide background values in one or more wells (Table 15-3). The arsenic MCL exceedances were at wells 28SW01, 28SW02, and 28SW04, and have been fairly consistent in magnitude since sampling began at this site in 2004. Arsenic values at well 28SW04 are among the highest at Alameda Point, ranging from 250 to 440 µg/L in recent years. Copper, nickel, and zinc are significantly above background and AWQCs at well 28SW03, where they are among the highest at Alameda Point. These results appear to signify contamination rather than background conditions, and appear to represent some of the most-significant metals contamination at the base. Based on a history of very sporadic detections, the thallium results above MCLs are not believed to represent ongoing thallium contamination.

15.4.3 Comparison of Current Analytical Results with Historical Data

The analytical results for groundwater sampling for the current sampling year (Summer 2005 through Spring 2006) are summarized in Table 15-6, which lists all analytes detected during the current sampling year along with the well location, date of sampling, and value of the maximum detected concentration recorded for each analyte. Historical sampling results (Summer 2004 through Spring 2005) are also shown in this table. Results for the current sampling year are fairly consistent with prior results. Concentrations exceeding MCLs are highlighted in yellow on the table.

15.4.4 Trends in Groundwater Elevation Data

Trends in groundwater elevation over time are illustrated on Figure 15-3 for all four wells. Seasonal trends are irregular, and elevations may more likely reflect tidal influence, a likely factor at these near-shore locations.

15.4.5 Trends in Groundwater Contaminant Concentrations

Trends in groundwater contaminant concentrations in selected wells over time are displayed on Figures 15-4. Trend curves of arsenic, nickel, and thallium generally show small variations between sampling events.

15.5 CONCLUSIONS AND RECOMMENDATIONS

IR Site 28-specific contaminants of concern for metals exceeding MCLs include arsenic, nickel, and thallium. Arsenic exceeding its MCL was detected in the farthest inland well 28SW04 in all rounds of sampling with decreasing concentrations over the relatively short period of monitoring so far completed at the site. Nickel exceeding the MCL was detected in the northernmost well (28SW03) at levels much higher than the other wells. Thallium exceeding the MCL was detected in two wells, but values at these wells have more commonly been below the MCL.

TABLES

General Table Footnotes
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Acronyms and abbreviations
AWQC: Saltwater Ambient Water Quality Criteria, (U.S. EPA, 2002)
BV: Background value (Tetra Tech Environmental Management, Inc., November, 2001)
FWBZ: First Water-Bearing Zone
IR Site: Installation Restoration Site
MCL: California maximum contaminant level (U.S. EPA and California Department of Health Services, June 2003)
MTBE: Methyl tert-butyl ether
NA: Not available (applicable to regulatory limits or background values)
PAH: Polycyclic Aromatic Hydrocarbons
PCE: Tetrachloroethene
Ra: Radium
SO_4: Sulfate
Sr: Strontium
SVOC: Semivolatile Organic Compounds
SWBZ: Second Water-Bearing Zone
TCE: Trichloroethene
TDS: Total Dissolved Solids
TPH: Total Petroleum Hydrocarbons
VOC: Volatile Organic Compounds
-: compound not analyzed

Units
µg/L: micrograms per liter
mg/L: milligrams per liter
pCi/L: pico curies per liter
PPBV: parts per billion by volume
%V/V: percent volume by volume

Validation Qualifiers
J: Estimated value.
U: Not detected at or above the indicated reporting limit.
UJ: Not detected at or above the indicated reporting limit. The reporting limit is an estimate.
R: The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.
UR: The analyte was not detected. The analyte is rejected due to deficiencies in the ability to analyze the sample and meet QC criteria.

Notes
Detected values are bolded.
Detected values greater than the MCL are shown in yellow highlighting
Detected values for dissolved metals in FWBZ wells greater than the BV are shown in blue highlighting
Detected values for FWBZ wells greater than the both the BV and the MCL for dissolved metals are shown in pink highlighting
Total TPH (calculated) is the sum of all reported TPH results. Where all TPH results are less than reporting limits , the Total TPH is represented by the highest reporting limit

Table 15-1
Groundwater Monitoring Summary, IR Site 28 - Spring 2006

WATER-BEARING ZONE	SAMPLE LOCATION	GEOLOGICAL UNIT	SCREEN INTERVAL (FT. BGS)	Inorganic Compounds		
				Dissolved Metals (EPA 6010B/ 6020A/7470A)	Hexavalent Chromium (EPA 7196A)	TDS (EPA Method 160.1)
Groundwater Monitoring Program Wells						
First	28SW01	Fill-BSU	6 - 16	X	X	X
	28SW02	Fill-BSU	6.2 - 16.3	X	X	X
	28SW03	Fill-BSU	6.2 - 16.2	X	X	X
	28SW04	Fill-BSU	5.4 - 15.7	X	X	X

Notes: Well sampled for this parameter at Summer 2005 and Spring 2006 sampling events

Fill - Artificial Fill
BSU - Bay Sediment Unit
FT. BGS - Feet below ground surface
(EPA 7196A) - U.S. Environmental Protection Agency analytical method
TDS - Total Dissolved Solids

Table 15-2
Summary of Groundwater Level Measurements at IR Site 28
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Ground Surface Elevation (feet msl)	Top of Casing Elevation (feet msl)	Water level Measurement Date	Depth to Water (feet BTOC)	Groundwater Elevation (feet msl)
First	28SW01	9.18	10.67	04/17/06	4.55	6.12
		9.18	10.67	08/22/05	4.30	6.37
		9.18	10.67	02/28/05	4.50	6.17
		9.18	10.67	11/09/04	4.53	6.14
		9.18	10.67	06/17/04	4.64	6.03
First	28SW02	10.93	10.86	04/17/06	7.55	3.31
		10.93	10.86	08/22/05	6.70	4.16
		10.93	10.86	02/28/05	7.48	3.38
		10.93	10.86	11/09/04	6.99	3.87
		10.93	10.86	06/17/04	7.51	3.35
First	28SW03	10.98	10.42	04/17/06	8.25	2.17
		10.98	10.42	08/22/05	6.70	3.72
		10.98	10.42	02/28/05	8.42	2.00
		10.98	10.42	11/09/04	7.12	3.30
		10.98	10.42	06/17/04	7.93	2.49
First	28SW04	10.96	11.08	04/17/06	5.70	5.38
		10.96	11.08	08/22/05	6.20	4.88
		10.96	11.08	02/28/05	8.69	2.39
		10.96	11.08	11/09/04	6.34	4.74
		10.96	11.08	06/17/04	6.61	4.47
First	MBG-1			04/17/06	2.3	-2.30

Notes:

BTOC = below top of casing

msl = mean sea level

Table 15-3

Groundwater Sample Analytical Results at IR Site 28: Dissolved Metals

Summer 2002 through Spring 2006

Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

				Metals of Potential Concern																		Common Rock-forming Elements					
				Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Aluminum	Iron	Calcium	Magnesium	Potassium	Sodium
			Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L	MG/L
			MCL:	6.0	10.0	1,000	4.0	5.0	50.0	NA	1,000	50.0	15.0	NA	2.0	NA	100	50.0	NA	2.0	NA	NA	1,000	NA	NA	NA	NA	NA
			BV:	11.8	8.0	123	1.0	1.3	3.4	4.6	7.5	NA	1.3	1,171	0.10	5.6	7.4	1.9	1.6	2.3	8.4	10.5	96.2	1,624	380	103,358	40,552	937,369
	Well Number	Event	AWQC:	NA	36.0	NA	NA	8.8	NA	NA	3.1	NA	8.1	NA	0.94	NA	8.2	71.0	1.9	NA	NA	81.0	NA	NA	NA	NA	NA	NA
FWBZ	28SW01	2006 02 (Summer)		1.7	**24.0**	58.0	< 2.0	< 5.0	< 10.0	0.079 J	< 10.0	< 10.0	1.0 J	< 10.0	**0.18 J**	**7.1 J**	< 20.0	0.42 J	**6.0 J**	< 5.0	**22.0**	**11.0 J**	< 100	< 100	290	880	270	6,900
		2006 01 (Spring)		1.2	**28.0 J**	36.0	< 2.0	< 5.0	**5.2 J**	0.48 J	5.7 J	10.0	< 3.0	< 50.0	< 0.20	**9.5 J**	4.4 J	**13.0**	0.077 J	< 5.0	**23.0**	**15.0 J**	< 100	620	190	570	210	5,400
		2005 02 (Summer)		2.0	**21.0**	58.0	< 2.0	< 5.0	< 10.0	0.42 J	< 10.0	< 10.0	< 3.0	< 10.0	< 0.20	**7.4 J**	< 20.0	**4.2 J**	< 5.0	**6.5**	**24.0**	**18.0 J**	96.0 J	< 100	320	970	300	7,200
		2005 01 (Spring)		1.1	**18.0**	31.0	< 2.0	< 5.0	1.4 J	0.48 J	< 10.0	< 10.0	< 3.0	< 10.0	< 0.20	**7.5 J**	< 20.0	< 5.0	< 5.0	**4.7 J**	**19.0**	**12.0 J**	< 100	< 100	270	840	310	7,000
		2004 04 (Winter)		1.2	**18.0**	48.0	< 2.0	< 5.0	< 10.0	0.76 J	3.3 J	< 10.0	< 3.0	< 10.0	0.053 J	**9.1 J**	< 20.0	< 5.0	< 5.0	< 5.0	**19.0**	**14.0 J**	< 100	< 100	320	920	310	8,500
		2004 02 (Summer)		1.5	6.2	57.0	< 2.0	< 5.0	< 10.0	0.86 J	**43.0**	< 10.0	0.58 J	< 10.0	0.081 J	< 20.0	< 20.0	< 1.0	< 5.0	< 1.0	**24.0**	7.2 J	< 50.0	< 100	380	1,100	370	9,000
	28SW02	2006 02 (Summer)		< 1.0	**14.0**	**220**	< 2.0	< 5.0	**6.2 J**	0.84 J	< 10.0	< 10.0	< 3.0	530	< 0.20	< 20.0	3.0 J	< 5.0	**5.1 J**	< 5.0	**17.0**	**20.0**	< 100	1,200	230	830	190	6,000
		2006 01 (Spring)		3.1	**31.0 J**	**170**	< 2.0	< 5.0	**6.3 J**	1.2	**10.0**	< 10.0	< 3.0	340	0.030 J	**11.0 J**	**37.0**	**16.0**	< 5.0	< 5.0	**53.0**	**60.0**	< 100	**2,000**	290	660	140	4,000
		2005 02 (Summer)		1.6	**33.0**	**210**	< 2.0	< 5.0	**7.4 J**	0.42 J	6.9 J	< 10.0	< 3.0	290	< 0.20	4.0 J	**14.0 J**	< 5.0	**2.7 J**	< 5.0	**63.0**	**23.0**	83.0 J	310	200	720	190	4,900
		2005 01 (Spring)		1.4	**19.0**	**200**	< 2.0	< 5.0	**5.7 J**	0.80 J	6.8 J	< 10.0	< 3.0	490	< 0.20	4.4 J	**15.0 J**	< 5.0	< 5.0	< 5.0	**29.0**	**15.0 J**	< 100	1,200	270	870	240	6,400
		2004 04 (Winter)		1.0	**8.6**	**280**	< 2.0	< 5.0	**6.6 J**	0.95 J	3.8 J	< 10.0	< 3.0	470	**0.13 J**	3.0 J	6.0 J	< 5.0	< 5.0	< 5.0	**26.0**	7.1 J	< 100	340	250	890	260	8,000
		2004 02 (Summer)		0.38 J	< 1.0	**210**	< 1.0	< 5.0	**8.2**	0.99 J	5.2	< 10.0	0.57 J	470	0.052 J	< 20.0	6.6	< 1.0	< 5.0	< 1.0	**18.0**	< 1.0	< 50.0	410	230	900	240	6,900
	28SW03	2006 02 (Summer)		5.1	6.4	67.0	< 2.0	< 5.0	**8.7 J**	0.26 J	**130**	< 10.0	**1.8 J**	12.0	**0.36**	**11.0 J**	**180**	0.36 J	**3.8 J**	< 5.0	**59.0**	**260**	< 100	< 100	180	720	180	4,900
		2006 01 (Spring)		4.2	**13.0 J**	36.0	< 2.0	0.20 J	**11.0**	0.39 J	**120**	< 10.0	0.93 J	< 50.0	**0.28**	**15.0 J**	**91.0**	**9.8**	< 5.0	< 5.0	**83.0**	**80.0**	< 100	330	92.0	400	120	3,100
		2005 02 (Summer)		5.5	< 50.0	84.0	< 2.0	**1.6 J**	**8.9 J**	0.63 J	**210**	< 10.0	< 3.0	60.0	**1.2**	**15.0 J**	**280**	< 5.0	**3.0 J**	< 5.0	**64.0**	**290**	**170 J**	270	210	800	210	5,300
		2005 01 (Spring)		1.7	2.9 J	58.0	< 2.0	< 5.0	< 10.0	0.42 J	**98.0**	< 10.0	< 3.0	< 10.0	**0.26**	**14.0 J**	**85.0**	< 5.0	< 5.0	< 5.0	**100**	**140**	< 100	< 100	170	690	210	5,600
		2004 04 (Winter)		2.4	6.9	97.0	< 2.0	0.71 J	< 10.0	0.79 J	**130**	< 10.0	< 3.0	< 10.0	**0.21**	**11.0 J**	**130**	< 5.0	< 5.0	< 5.0	**98.0**	**210**	< 100	< 100	240	850	270	7,800
		2004 02 (Summer)		3.9	< 1.0	90.0	< 1.0	< 5.0	**5.0**	1.0	**93.0**	< 10.0	0.83 J	< 10.0	**0.11 J**	**14.0 J**	**120**	< 1.0	< 5.0	< 1.0	**120**	**89.0**	< 50.0	< 100	260	980	280	7,100
	28SW04	2006 02 (Summer)		< 1.0	**470**	**140**	< 2.0	< 5.0	**4.5 J**	2.6	< 10.0	< 10.0	**2.0 J**	**7,800**	< 0.20	**6.2 J**	4.5 J	< 5.0	**1.9 J**	< 5.0	< 10.0	< 20.0	< 100	**2,100**	140	98.0	12.0	480
		2006 01 (Spring)		< 1.0	**350 J**	120	< 2.0	< 5.0	< 10.0	2.4	1.1 J	< 10.0	< 3.0	**7,300**	< 0.20	**8.5 J**	6.8 J	< 5.0	< 5.0	< 5.0	< 10.0	< 20.0	< 100	**3,200**	120	93.0	9.3	350
		2005 02 (Summer)		0.77 J	**440**	**170**	< 2.0	< 5.0	1.4 J	2.7	< 10.0	< 10.0	< 3.0	**9,700**	< 0.20	**7.0 J**	**10.0 J**	< 5.0	< 5.0	**6.3**	3.5 J	**13.0 J**	< 100	**2,000**	120	97.0	13.0	390
		2005 01 (Spring)		0.44 J	**250**	100	< 2.0	< 5.0	3.4 J	3.3	< 10.0	< 10.0	< 3.0	**9,700**	< 0.20	**9.1 J**	**7.7 J**	< 5.0	< 5.0	< 5.0	3.1 J	< 20.0	< 100	1,600	140	120	11.0	430
		2004 04 (Winter)		0.35 J	**280**	**160**	< 2.0	< 5.0	**4.9 J**	**6.0**	< 10.0	< 10.0	< 3.0	**12,000**	< 0.20	**7.2 J**	**9.6 J**	< 5.0	< 5.0	< 5.0	4.0 J	9.1 J	< 100	1,500	150	120	13.0	500
		2004 02 (Summer)		0.73 J	**420**	**180**	< 2.0	< 5.0	3.2 J	4.1	< 10.0	< 10.0	0.31 J	**12,000**	0.064 J	**8.6 J**	**9.8 J**	**3.3 J**	< 5.0	< 1.0	< 10.0	**36.0**	< 50.0	970	160	120	14.0	540

Legend

- Result exceeds Maximum Contaminant Level (MCL)
- Result exceeds Ambient Water Quality Criteria (AWQC)
- Result exceeds both MCL and AWQC
- **Bold Text:** Result exceeds background value (BV)

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Table 15-4
Groundwater Sampling Field Parameters at IR Site 28
Fall/Winter 2004 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

Water-Bearing Zone	Well Name	Measurement Date	pH	Dissolved Oxygen (mg/L)	ORP (mV)
First	28SW01	05/03/06	7.39	2.67	1.0
		09/03/05	6.09	2.34	92
		03/21/05	7.24	1.43	83
		11/29/04	7.04	2.33	180
First	28SW02	05/03/06	7.66	0.93	-209
		09/03/05	6.90	0.44	-190
		03/21/05	7.69	0.00	-219
		11/29/04	7.67	0.16	51
First	28SW03	05/03/06	8.21	4.40	-38
		09/03/05	7.54	3.26	98
		03/21/05	8.01	0.00	70
		11/29/04	7.83	0.16	180
First	28SW04	05/03/06	7.24	0.64	-165
		09/03/05	6.74	3.30	-175
		03/21/05	7.12	0.00	-113
		11/29/04	6.95	0.10	101

Notes:
Field parameters are measured during well purging, just prior to collection of the groundwater sample.
mg/L = milligrams per liter
ORP = oxidation-reduction potential
mV = millivolts

Italicized results are outside expected range for parameter. Natural groundwater has the following expected ranges:
pH: between 6 and 8.5 standard units
DO: below approximately 9 mg/L
ORP: between approximately 600 and -400 mV

Table 15-5
Groundwater Sample Analytical Results at IR Site 28: Total Dissolved Solids
Summer 2002 through Spring 2006
Basewide Groundwater Monitoring Program, Alameda Point, Alameda, California

			TDS
			Total Dissolved Solids
		Units:	MG/L
		MCL:	NA
		BV:	NA
	Well Number	Event AWQC:	NA
FWBZ	28SW01	2006 01 (Spring)	**3,500**
		2005 02 (Summer)	**29,100**
		2005 01 (Spring)	**23,200**
		2004 04 (Winter)	**27,600**
		2004 02 (Summer)	**27,800**
	28SW02	2006 01 (Spring)	**16,800**
		2005 02 (Summer)	**20,800**
		2005 01 (Spring)	**21,500**
		2004 04 (Winter)	**40,700**
		2004 02 (Summer)	**22,000**
	28SW03	2006 01 (Spring)	**10,500**
		2005 02 (Summer)	**19,700**
		2005 01 (Spring)	**17,900**
		2004 04 (Winter)	**26,600**
		2004 02 (Summer)	**22,100**
	28SW04	2006 01 (Spring)	**3,420**
		2005 02 (Summer)	**1,850**
		2005 01 (Spring)	**1,620**
		2004 04 (Winter)	**2,240**
		2004 02 (Summer)	**2,030**

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Legend

Result exceeds Maximum Contaminant Level (MCL)

Result exceeds Ambient Water Quality Criteria (AWQC)

Result exceeds both MCL and AWQC

Bold Text: Detected analyte

Table 15-6

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 28

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 28 (First Water-Bearing Zone)								
Total Petroleum Hydrocarbons and Volatile Organic Compounds								
Acetone (UG/L)	1	4	1.2 J	28SW02	03 May 2006	--	NA	NA
Methyl tert-butyl ether (MTBE) (UG/L)	2	4	2.4	28SW04	03 May 2006	--	NA	NA
Tert-butyl alcohol (UG/L)	1	4	11.0	28SW04	03 May 2006	--	NA	NA

Result exceeds Maximum Contaminant Level (MCL)

Table 15-6

Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 28

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 28 (First Water-Bearing Zone)								
Dissolved Metals								
Antimony (UG/L)	4	4	5.5	28SW03	13 Sep 2005	3.9	28SW03	2004 02 (Summer)
Arsenic (UG/L)	4	4	440	28SW04	13 Sep 2005	420	28SW04	2004 02 (Summer)
Barium (UG/L)	4	4	210	28SW02	13 Sep 2005	280	28SW02	2004 04 (Winter)
Cadmium (UG/L)	1	4	1.6 J	28SW03	13 Sep 2005	0.71 J	28SW03	2004 04 (Winter)
Chromium (UG/L)	4	4	11.0	28SW03	03 May 2006	8.2	28SW02	2004 02 (Summer)
Hexavalent Chromium (UG/L)	1	4	10.0	28SW01	03 May 2006	--	NA	NA
Cobalt (UG/L)	4	4	2.7	28SW04	13 Sep 2005	6.0	28SW04	2004 04 (Winter)
Copper (UG/L)	4	4	210	28SW03	13 Sep 2005	130	28SW03	2004 04 (Winter)
Lead (UG/L)	1	4	0.93 J	28SW03	03 May 2006	0.83 J	28SW03	2004 02 (Summer)
Manganese (UG/L)	3	4	9700	28SW04	13 Sep 2005	12000	28SW04	2004 04 (Winter)
Mercury (UG/L)	2	4	1.2	28SW03	13 Sep 2005	0.26	28SW03	2005 01 (Spring)
Molybdenum (UG/L)	4	4	15.0 J	28SW03	13 Sep 2005	14.0 J	28SW03	2005 01 (Spring)
Nickel (UG/L)	4	4	280	28SW03	13 Sep 2005	130	28SW03	2004 04 (Winter)
Selenium (UG/L)	3	4	16.0	28SW02	03 May 2006	3.3 J	28SW04	2004 02 (Summer)
Silver (UG/L)	3	4	3.0 J	28SW03	13 Sep 2005	--	NA	NA
Thallium (UG/L)	2	4	6.5	28SW01	13 Sep 2005	4.7 J	28SW01	2005 01 (Spring)
Vanadium (UG/L)	4	4	83.0	28SW03	03 May 2006	120	28SW03	2004 02 (Summer)
Zinc (UG/L)	4	4	290	28SW03	13 Sep 2005	210	28SW03	2004 04 (Winter)
Aluminum (UG/L)	3	4	170 J	28SW03	13 Sep 2005	--	NA	NA
Iron (UG/L)	4	4	3200	28SW04	03 May 2006	1600	28SW04	2005 01 (Spring)
Calcium (MG/L)	4	4	320	28SW01	13 Sep 2005	380	28SW01	2004 02 (Summer)
Magnesium (MG/L)	4	4	970	28SW01	13 Sep 2005	1100	28SW01	2004 02 (Summer)
Potassium (MG/L)	4	4	300	28SW01	13 Sep 2005	370	28SW01	2004 02 (Summer)
Sodium (MG/L)	4	4	7200	28SW01	13 Sep 2005	9000	28SW01	2004 02 (Summer)

Result exceeds Maximum Contaminant Level (MCL)

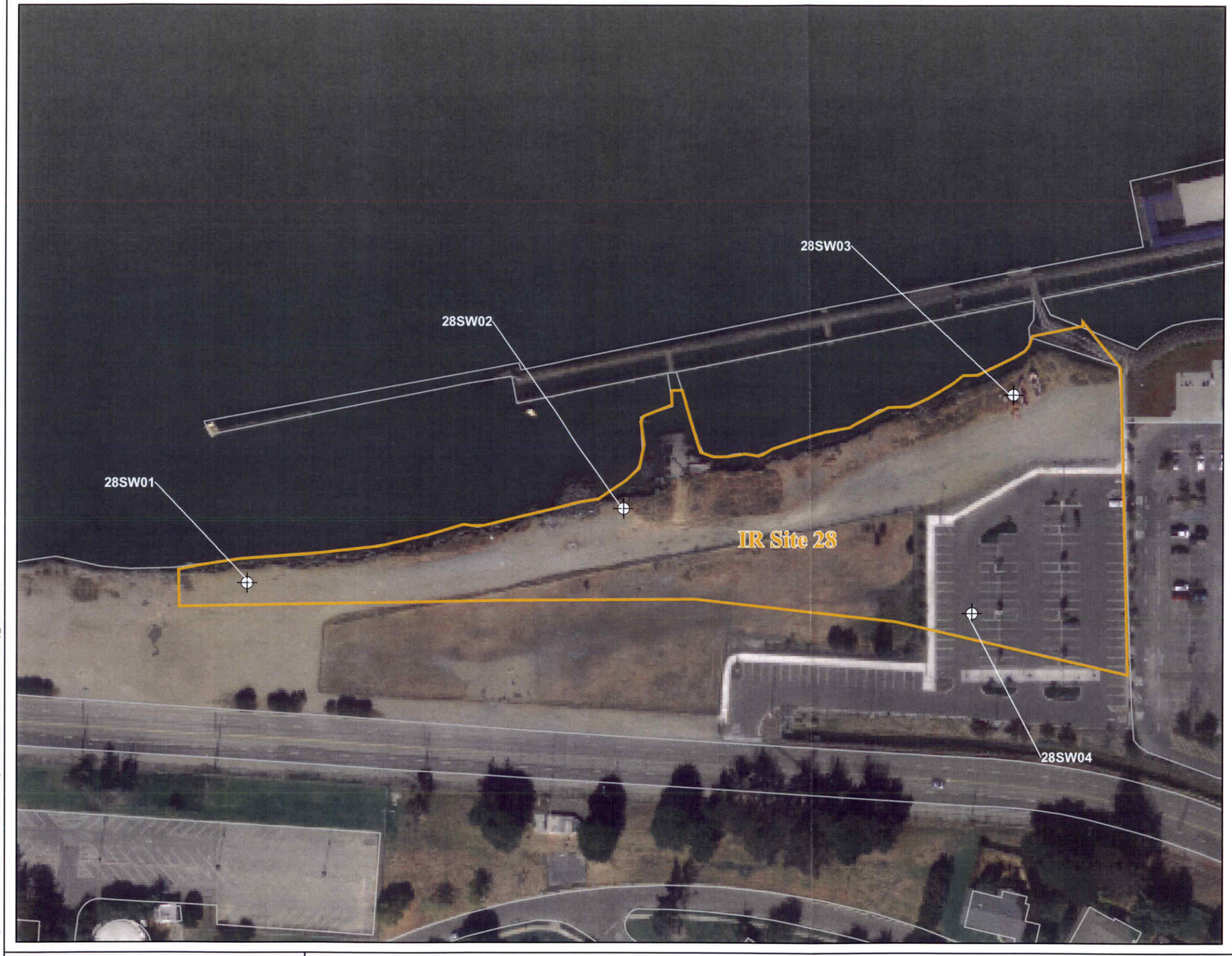
Table 15-6

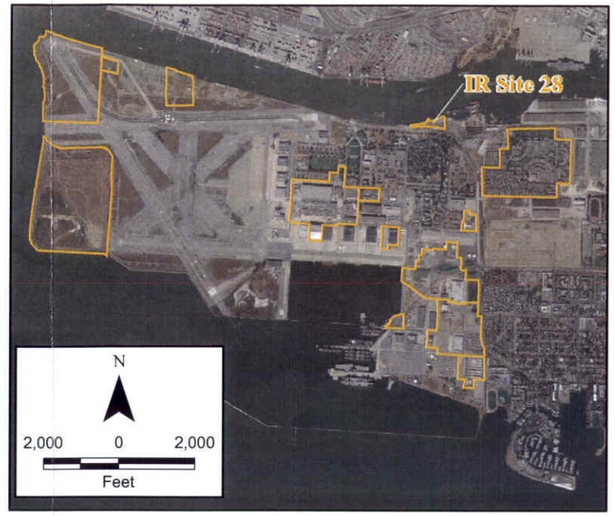
Summary of Current Sampling Year Results and Comparison with Historical Data, IR Site 28

Current Round of Sampling (Summer 2005 - Spring 2006)						Historical Data (Summer 2002 - Spring 2005)		
Analytes Detected During Current Sampling Year	Well Count with Detected Concentrations	Well Count Analyzed for Parameter	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration	Maximum Detected Concentration	Location of Max Detected Concentration	Date of Max Detected Concentration
IR Site 28 (First Water-Bearing Zone)								
Natural Attenuation Parameters								
Total Dissolved Solids (MG/L)	4	4	29100	28SW01	13 Sep 2005	40700	28SW02	2004 04 (Winter)

Result exceeds Maximum Contaminant Level (MCL)

FIGURES





Legend

- First Water Bearing Zone (FWBZ) Wells
- IR Site Boundary
- Facility

N

100 0 100

Feet

Source: USGS High Resolution Orthoimage, San Francisco-Oakland, CA, 2004
National Geospatial-Intelligence Agency (NGA)

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2004 Annual Rpt\IR Site 28\Annual 28 Location Map_NAD83.mxd

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PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 15-1
IR SITE 28
SITE AND WELL LOCATION MAP

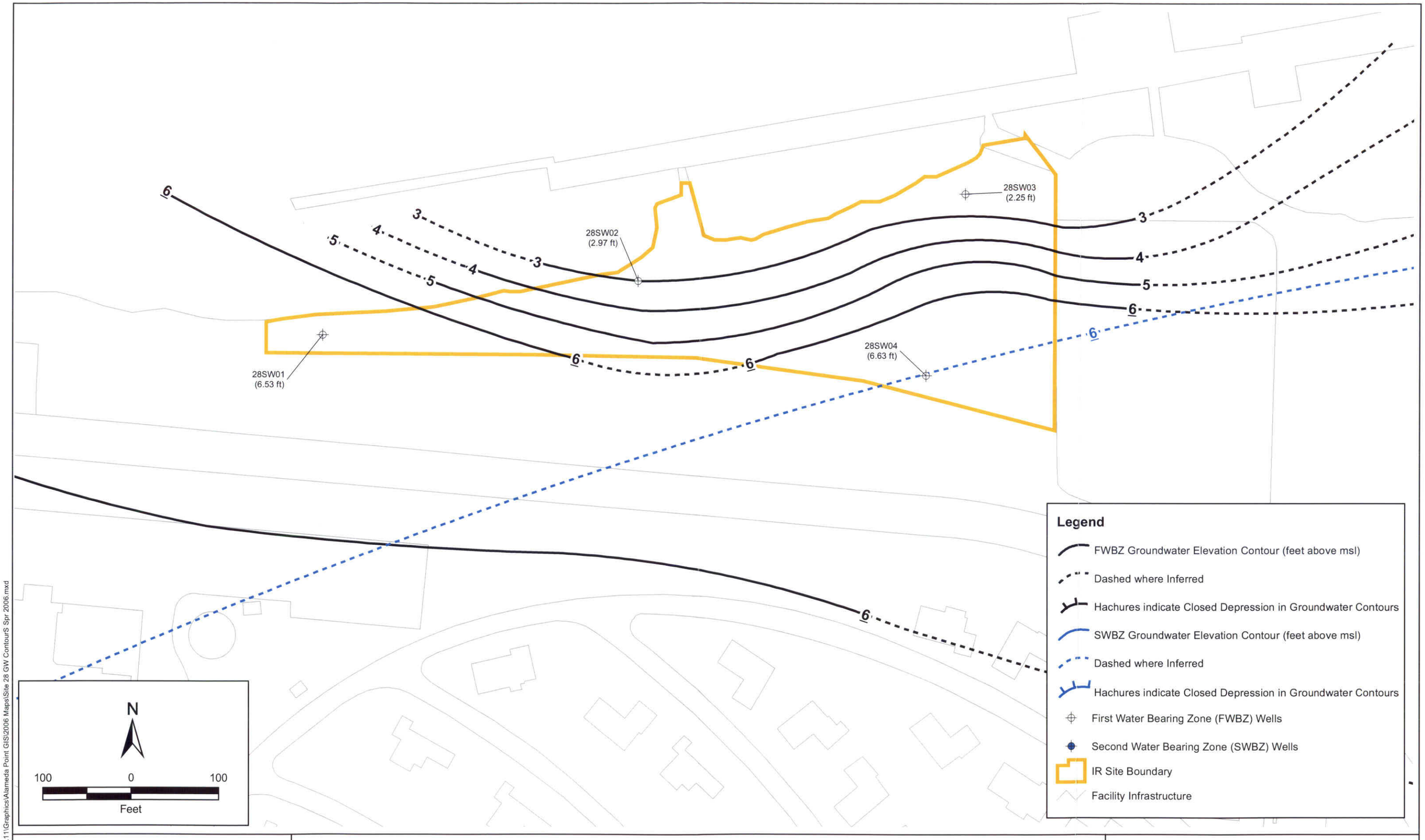

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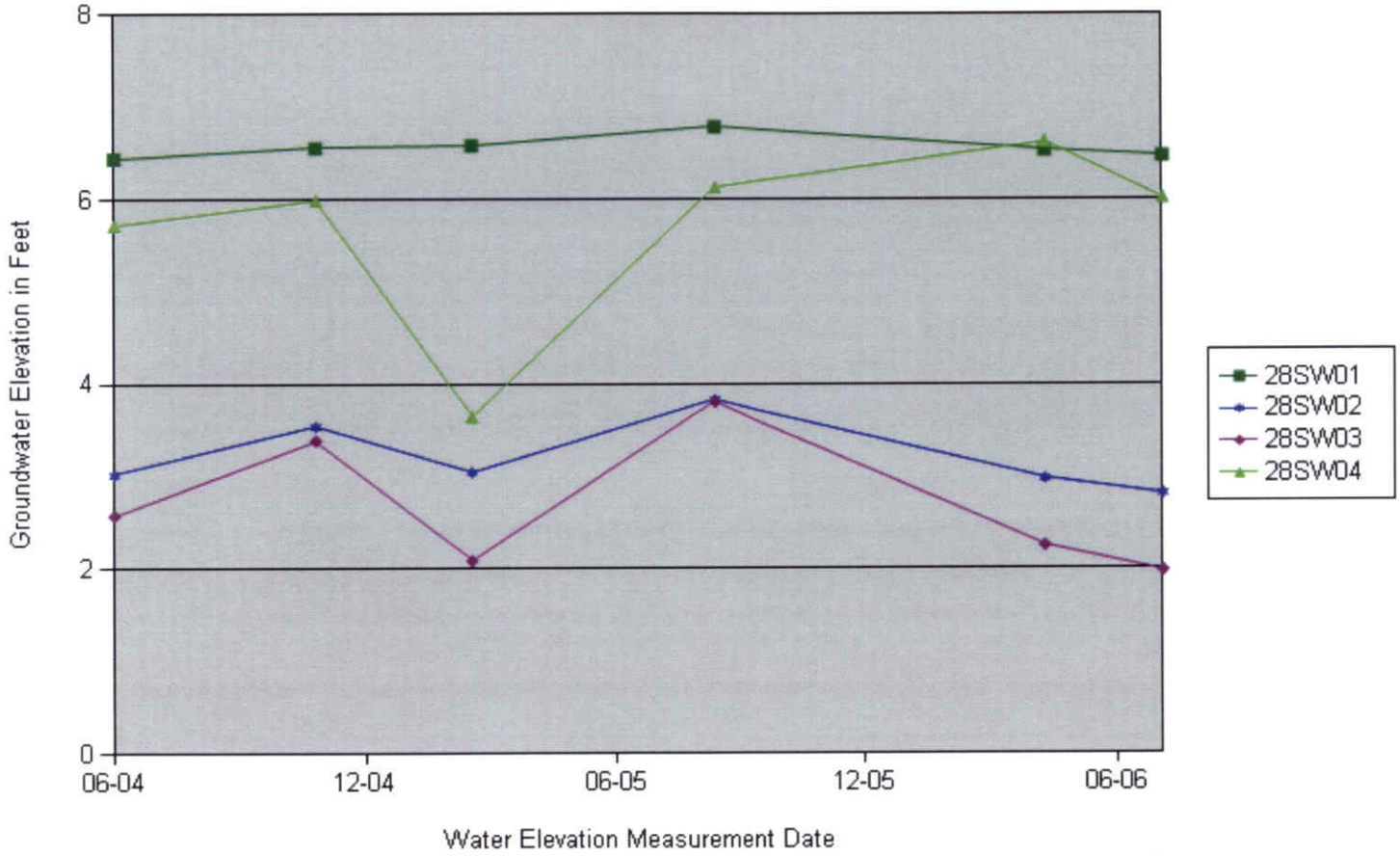
FIGURE 15-2
IR SITE 28
GROUNDWATER ELEVATION MAP (FWBZ/SWBZ)
SPRING 2006

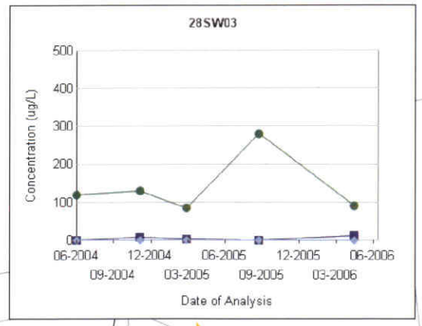
2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 28 GW ContourS Spr 2006.mxd

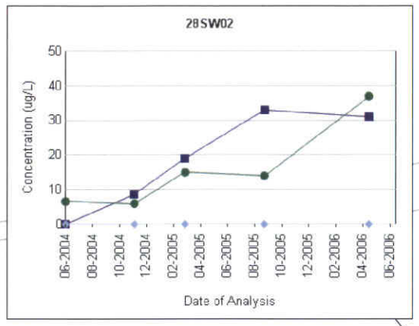


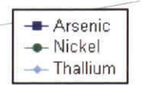
ITSI Innovative Technical Solutions, Inc.	U.S. DEPARTMENT OF THE NAVY, BASE REALIGNMENT AND CLOSURE PROGRAM MANAGEMENT OFFICE WEST SAN DIEGO, CALIFORNIA ALAMEDA POINT, ALAMEDA, CALIFORNIA	FIGURE 15-3 TRENDS IN GROUNDWATER ELEVATIONS AT IR SITE 28: FWBZ WELLS SUMMER 2002 THROUGH SPRING 2006

Legend

- First Water Bearing Zone (FWBZ) Wells
- Second Water Bearing Zone (SWBZ) Wells
- IR Site Boundary
- Facility Infrastructure

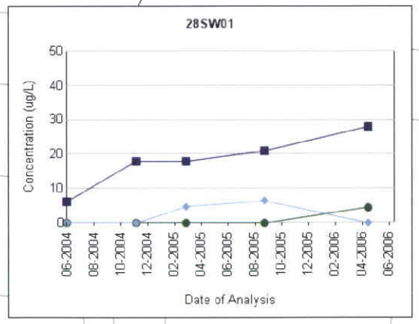


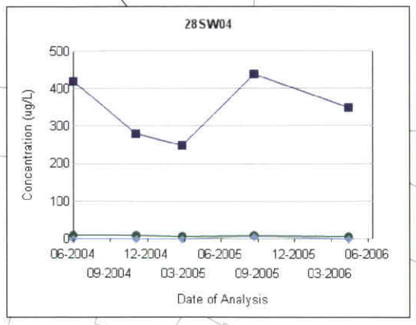


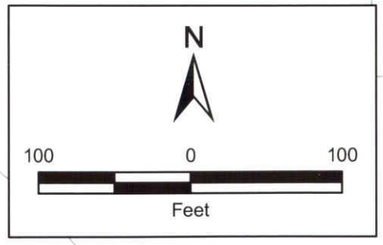


Analyte	MCL	Units
Arsenic	10	UG/L
Nickel	100	UG/L
Thallium	2	UG/L

IR Site 28







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SAN DIEGO, CALIFORNIA
ALAMEDA POINT, ALAMEDA, CALIFORNIA

FIGURE 15-4
IR SITE 28
GROUNDWATER CONCENTRATIONS OF METALS
OVER TIME FOR SELECTED FWBZ MONITORING WELLS
SUMMER 2002 THROUGH SPRING 2006

2002 Projects\02-125.11\Graphics\Alameda Point GIS\2006 Maps\Site 28 GW ContourS Spr 2006.mxd

16.0 REFERENCES

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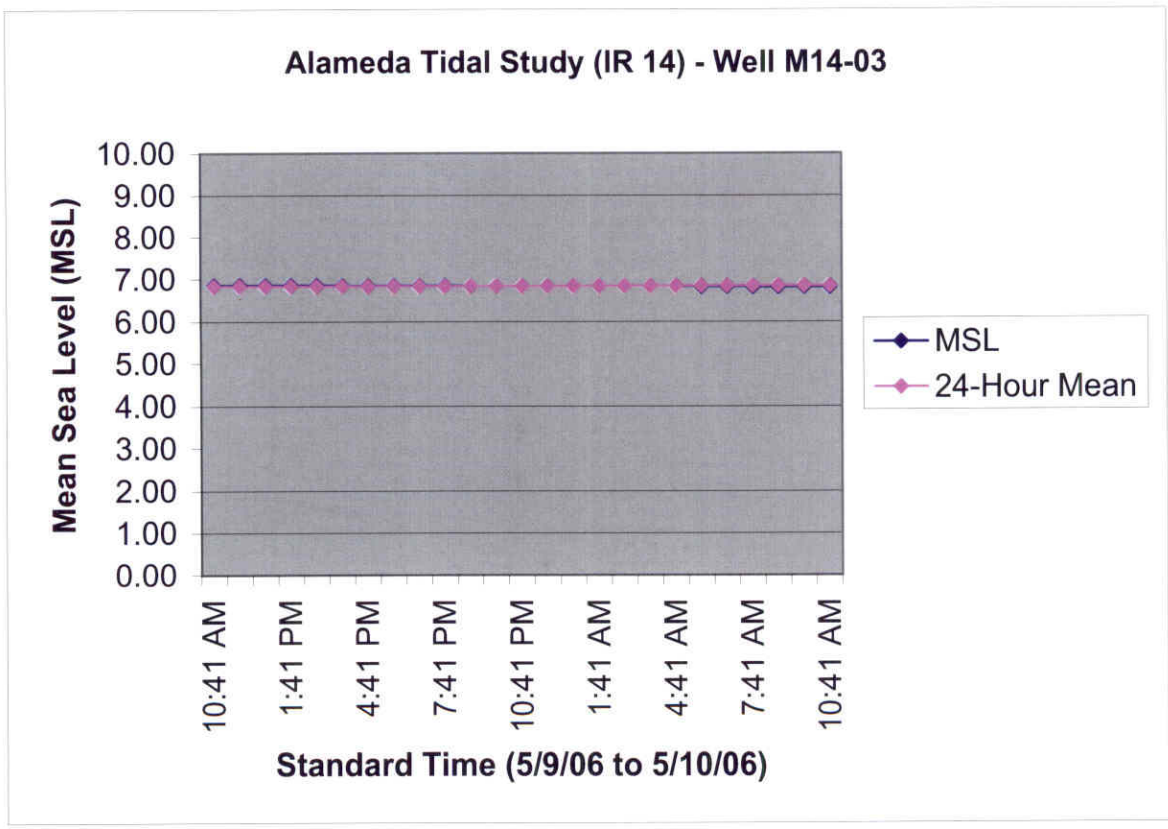
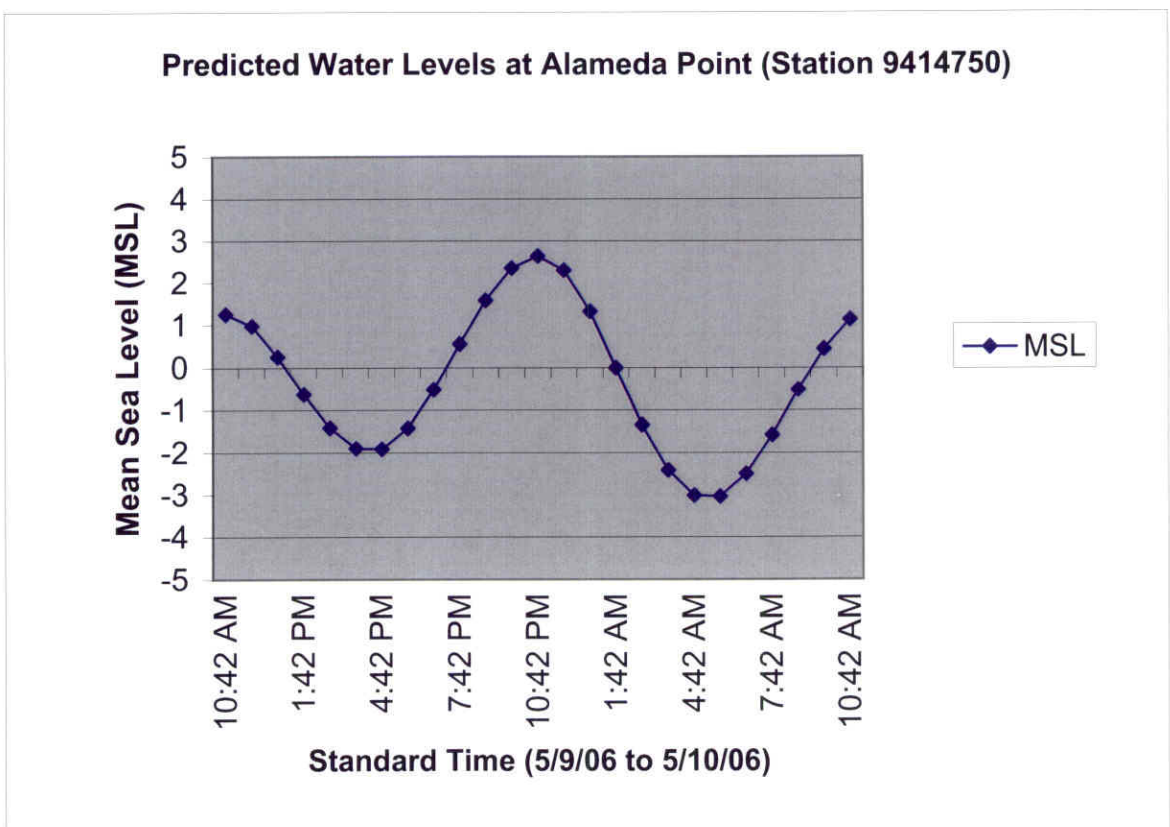
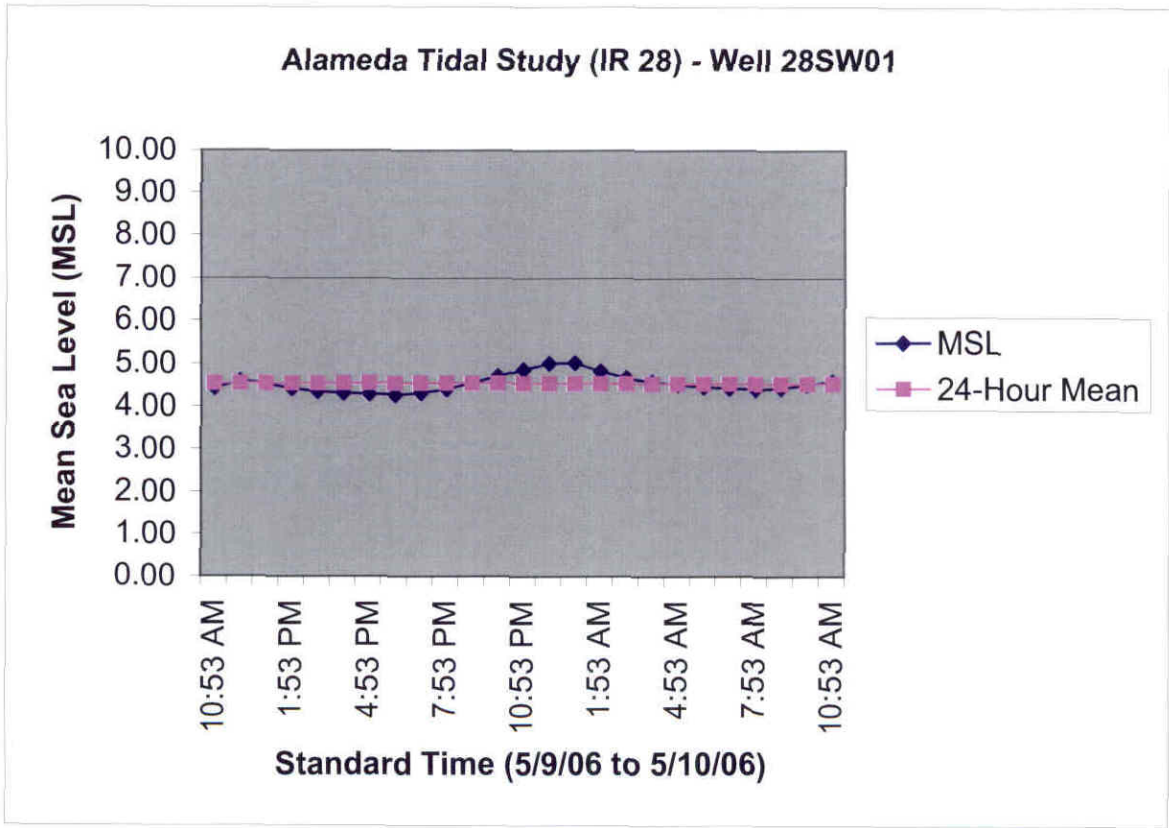
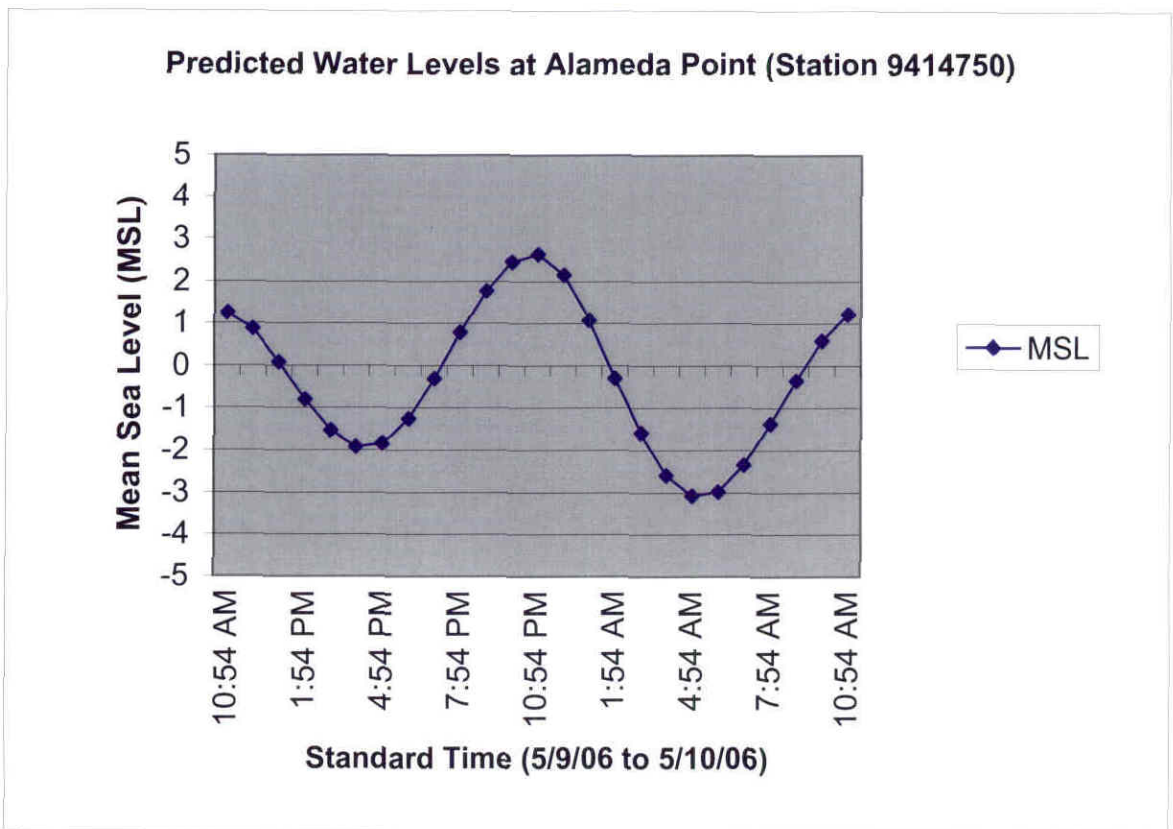
APPENDIX A

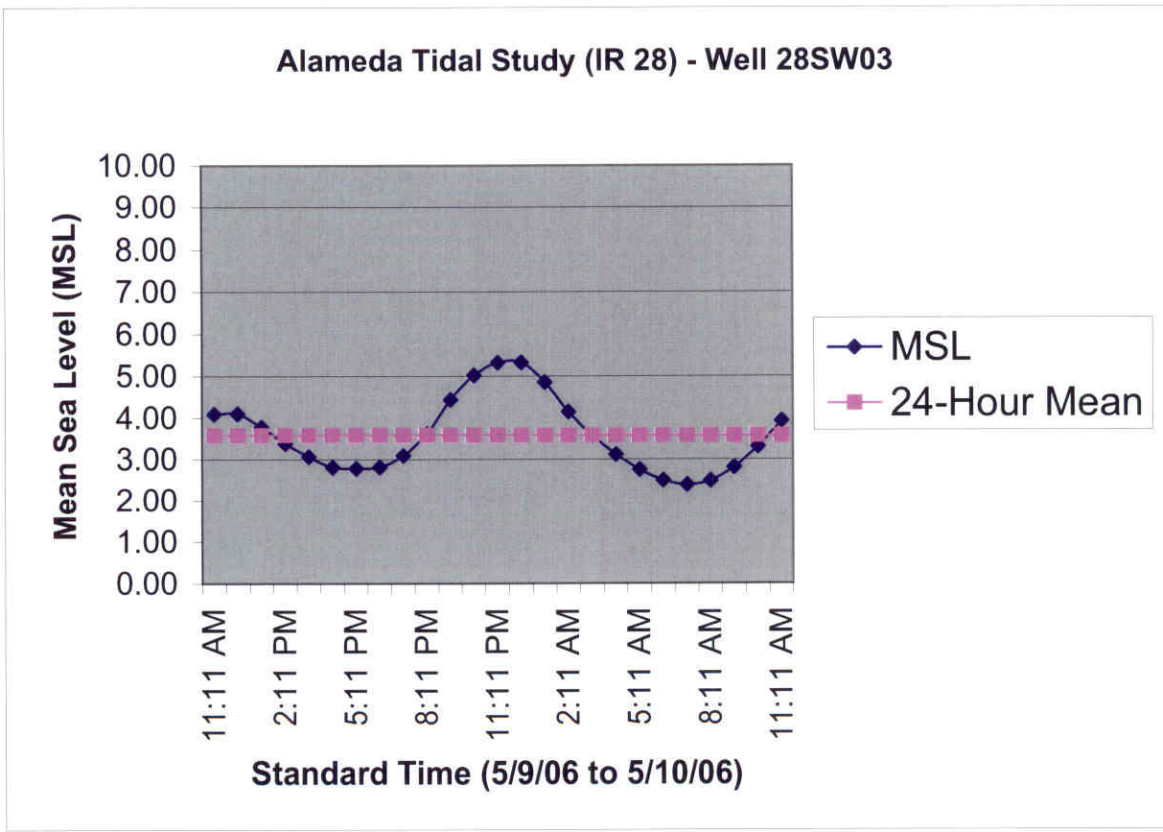
TIDALLY-INFLUENCED WELLS: COMPARISON TO PREDICTED WATER LEVELS AT TIDAL MONITORING STATION 9414750

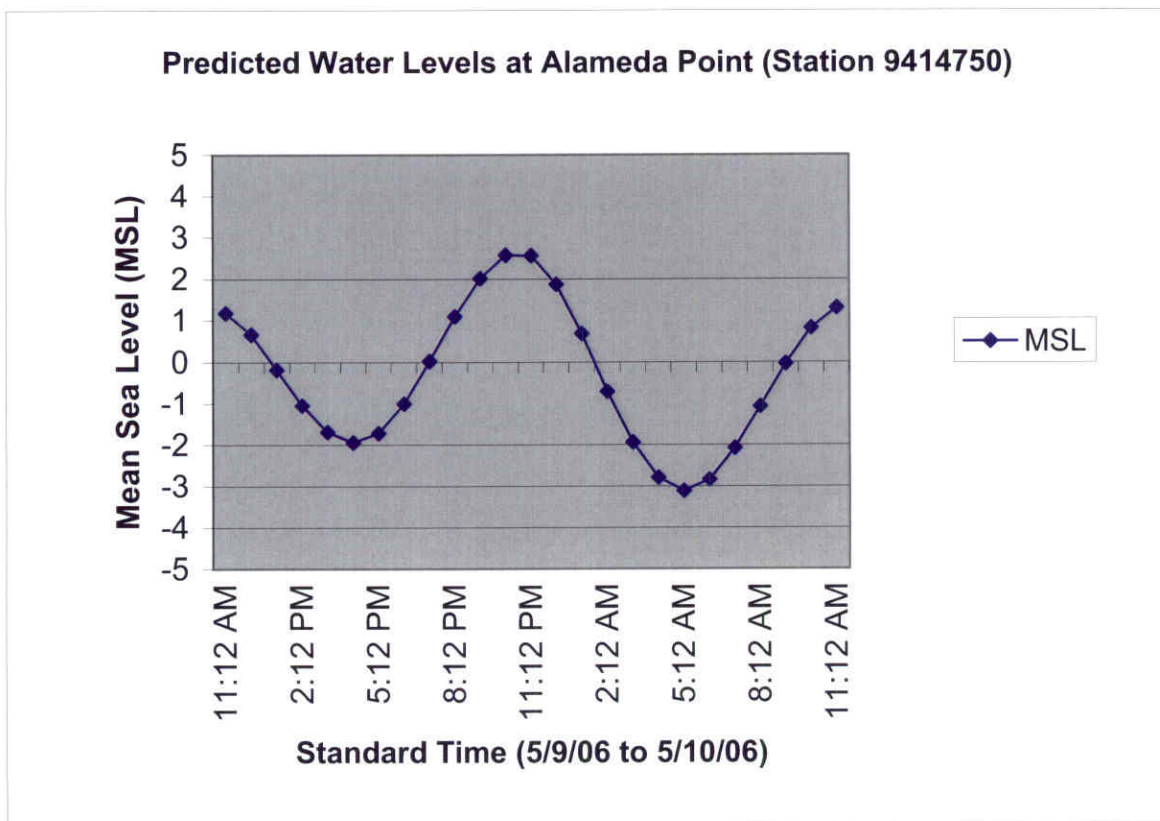

Alameda Tidal Study (IR 14) - Well M14-03
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10:41 AM
1:41 PM
4:41 PM
7:41 PM
10:41 PM
1:41 AM
4:41 AM
7:41 AM
10:41 AM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

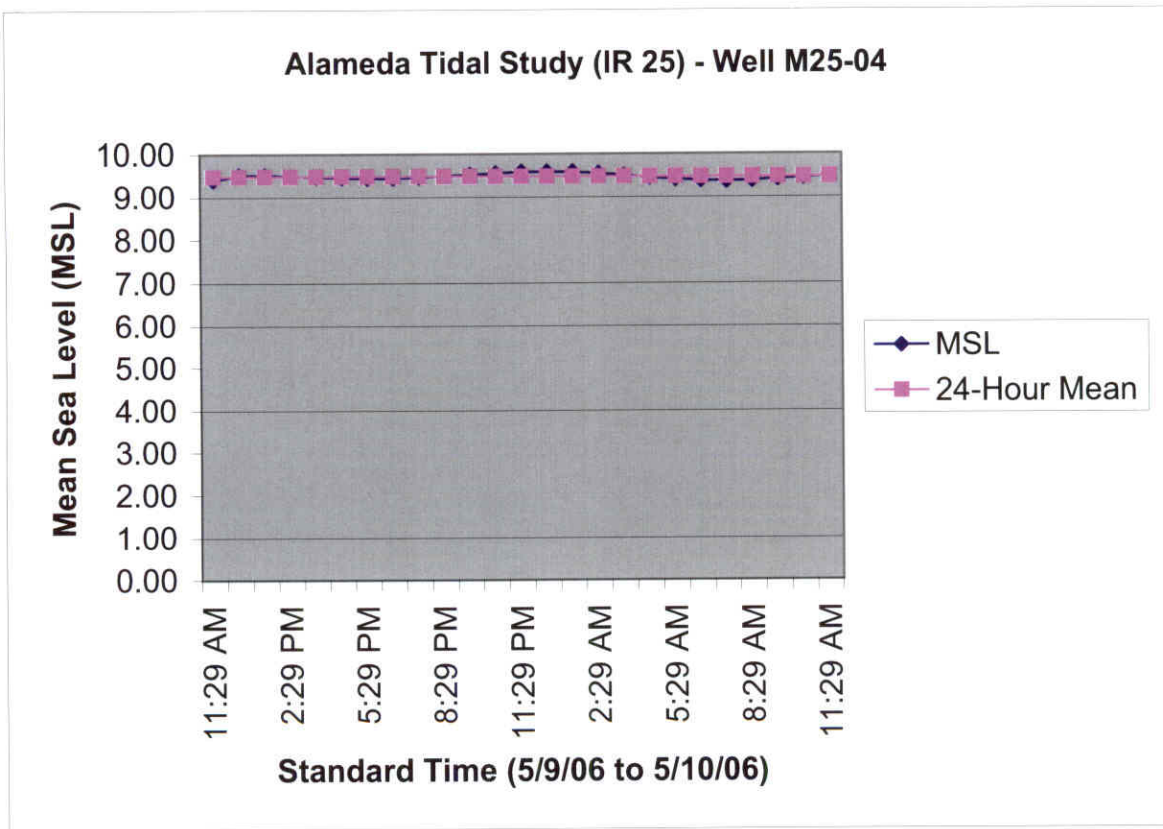

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
10:42 AM
1:42 PM
4:42 PM
7:42 PM
10:42 PM
1:42 AM
4:42 AM
7:42 AM
10:42 AM
Standard Time (5/9/06 to 5/10/06)
MSL

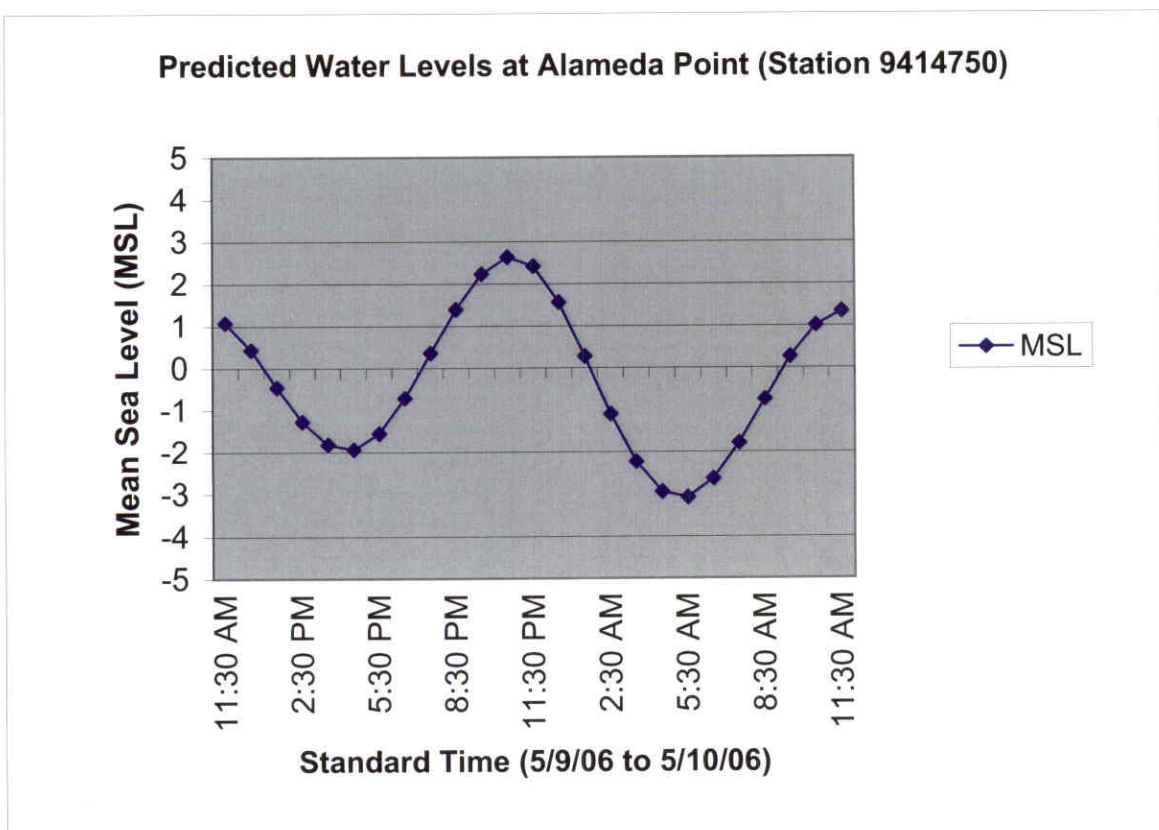

Alameda Tidal Study (IR 28) - Well 28SW01
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10:53 AM
1:53 PM
4:53 PM
7:53 PM
10:53 PM
1:53 AM
4:53 AM
7:53 AM
10:53 AM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

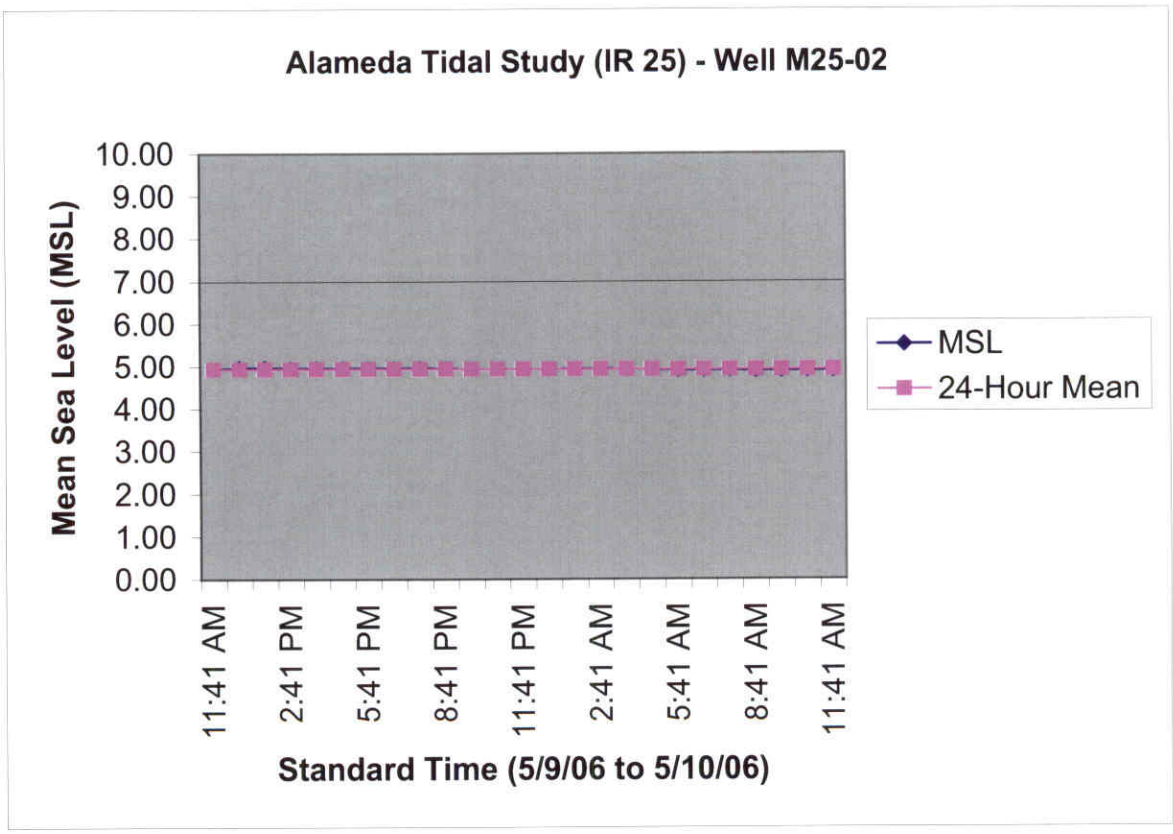

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
10:54 AM
1:54 PM
4:54 PM
7:54 PM
10:54 PM
1:54 AM
4:54 AM
7:54 AM
10:54 AM
Standard Time (5/9/06 to 5/10/06)
MSL

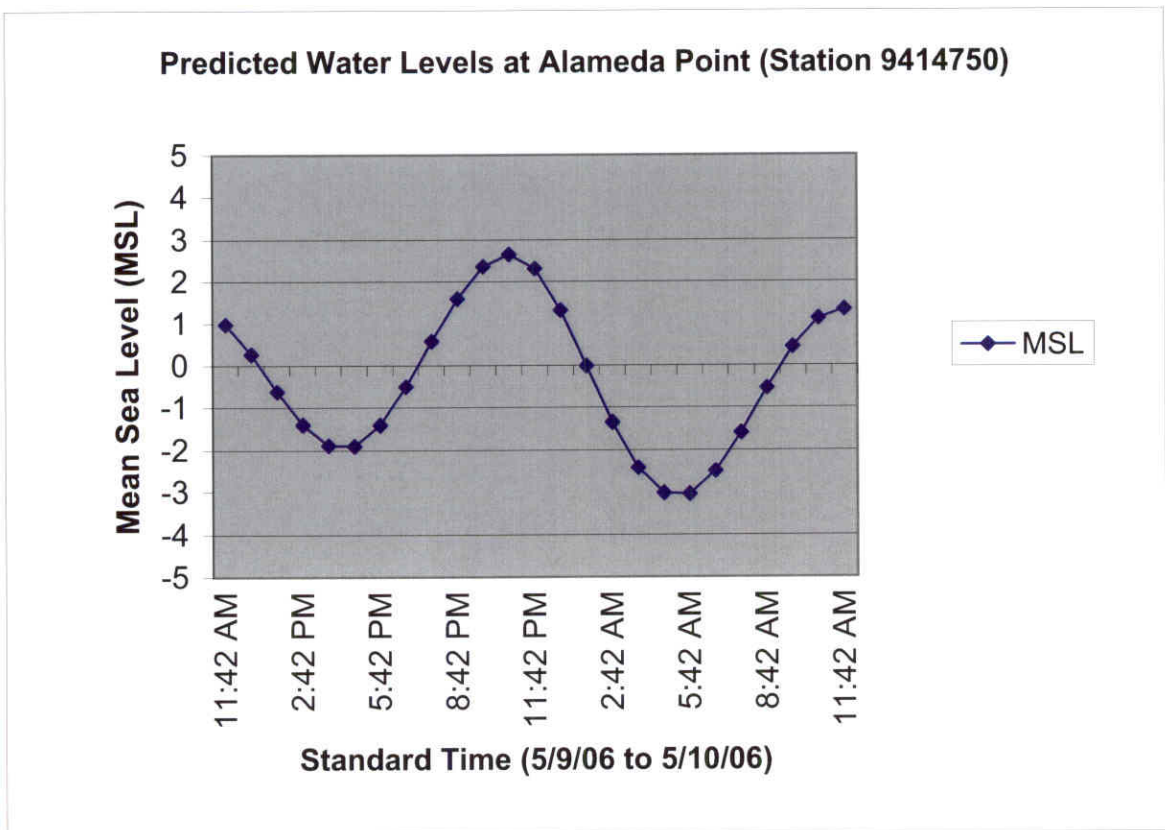

Alameda Tidal Study (IR 28) - Well 28SW03
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
11:11 AM
2:11 PM
5:11 PM
8:11 PM
11:11 PM
2:11 AM
5:11 AM
8:11 AM
11:11 AM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

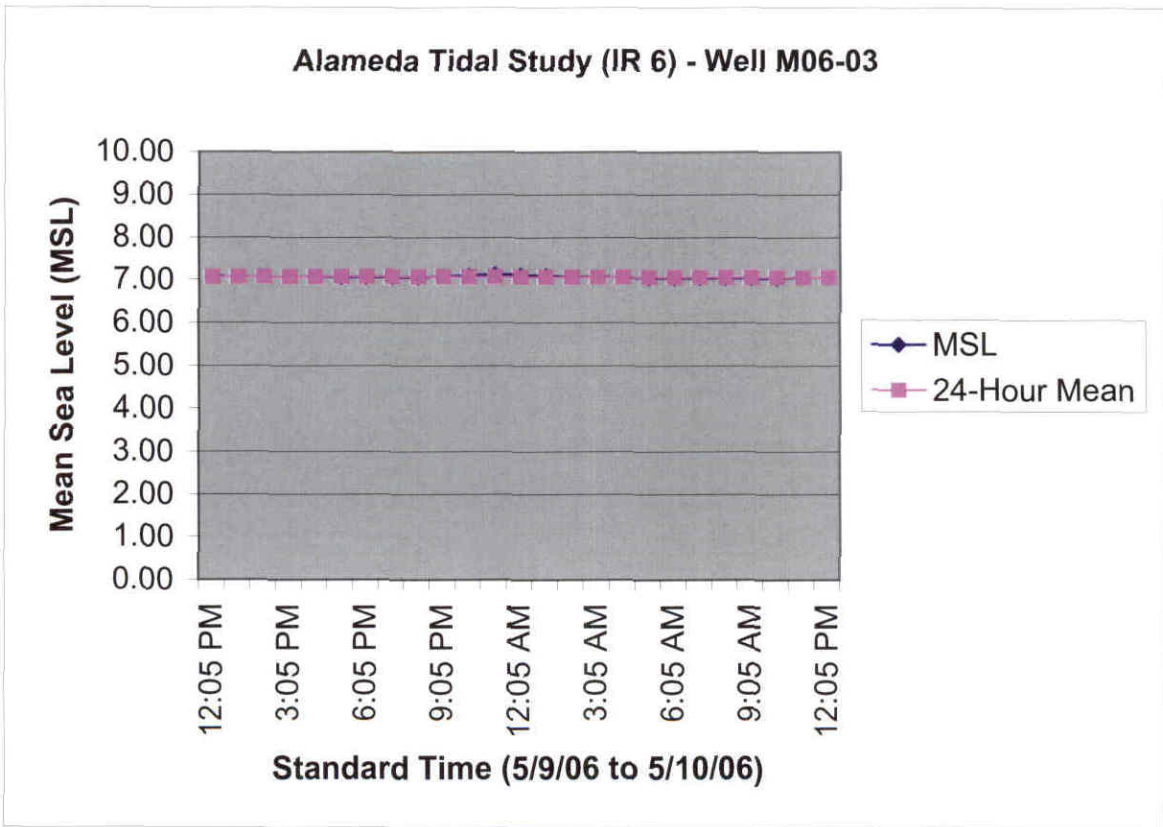

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
11:12 AM
2:12 PM
5:12 PM
8:12 PM
11:12 PM
2:12 AM
5:12 AM
8:12 AM
11:12 AM
Standard Time (5/9/06 to 5/10/06)
MSL

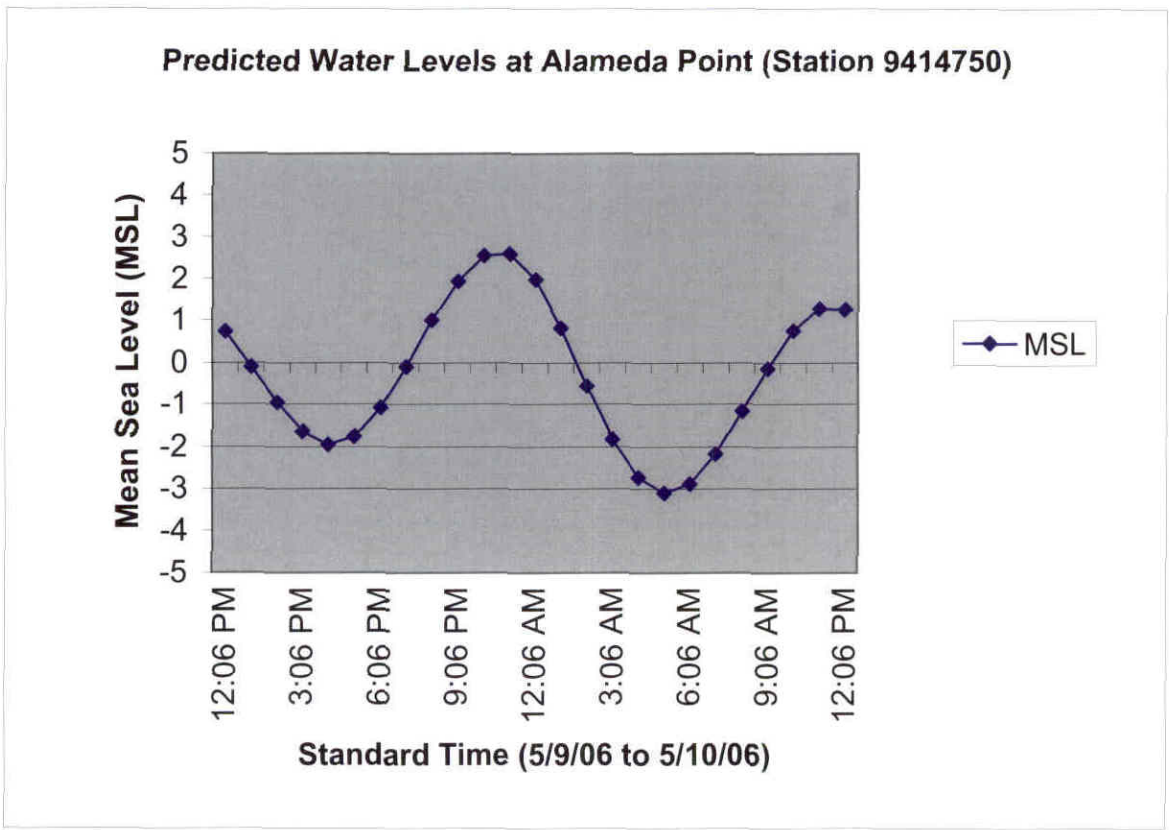

Alameda Tidal Study (IR 25) - Well M25-04
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
11:29 AM
2:29 PM
5:29 PM
8:29 PM
11:29 PM
2:29 AM
5:29 AM
8:29 AM
11:29 AM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

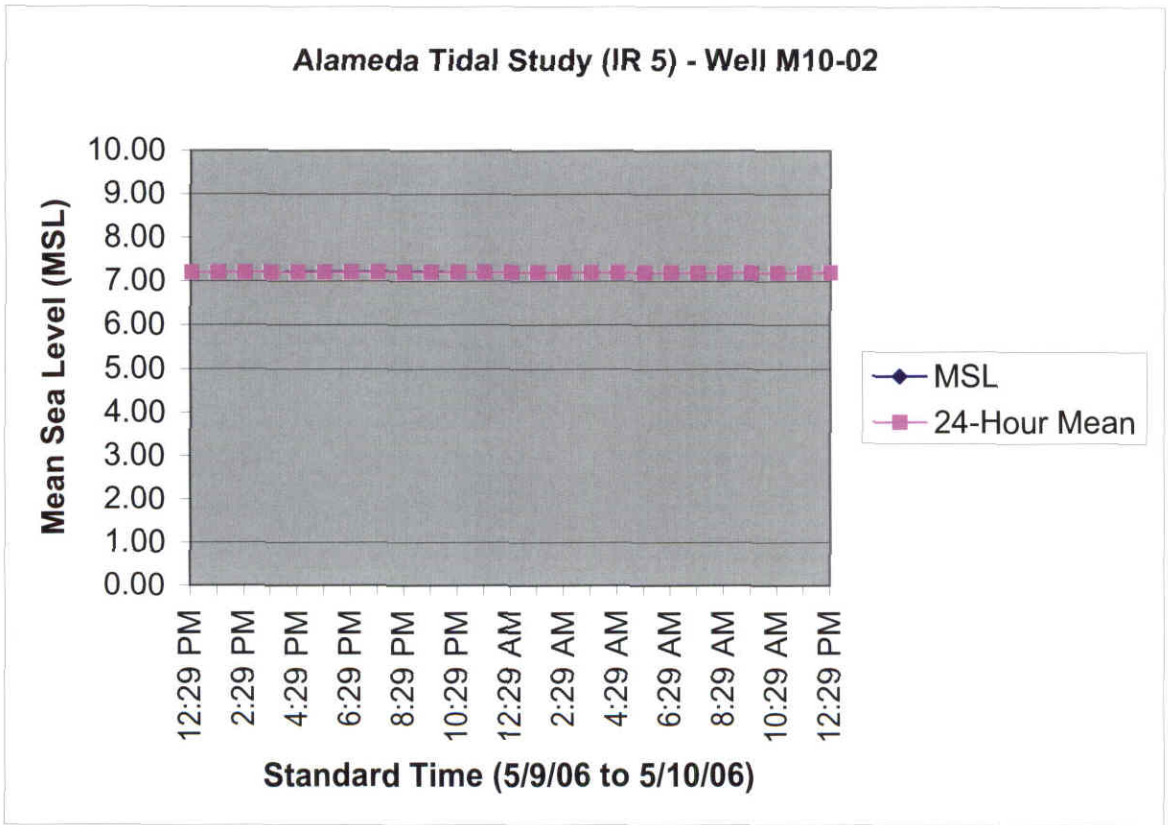

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
11:30 AM
2:30 PM
5:30 PM
8:30 PM
11:30 PM
2:30 AM
5:30 AM
8:30 AM
11:30 AM
Standard Time (5/9/06 to 5/10/06)
MSL

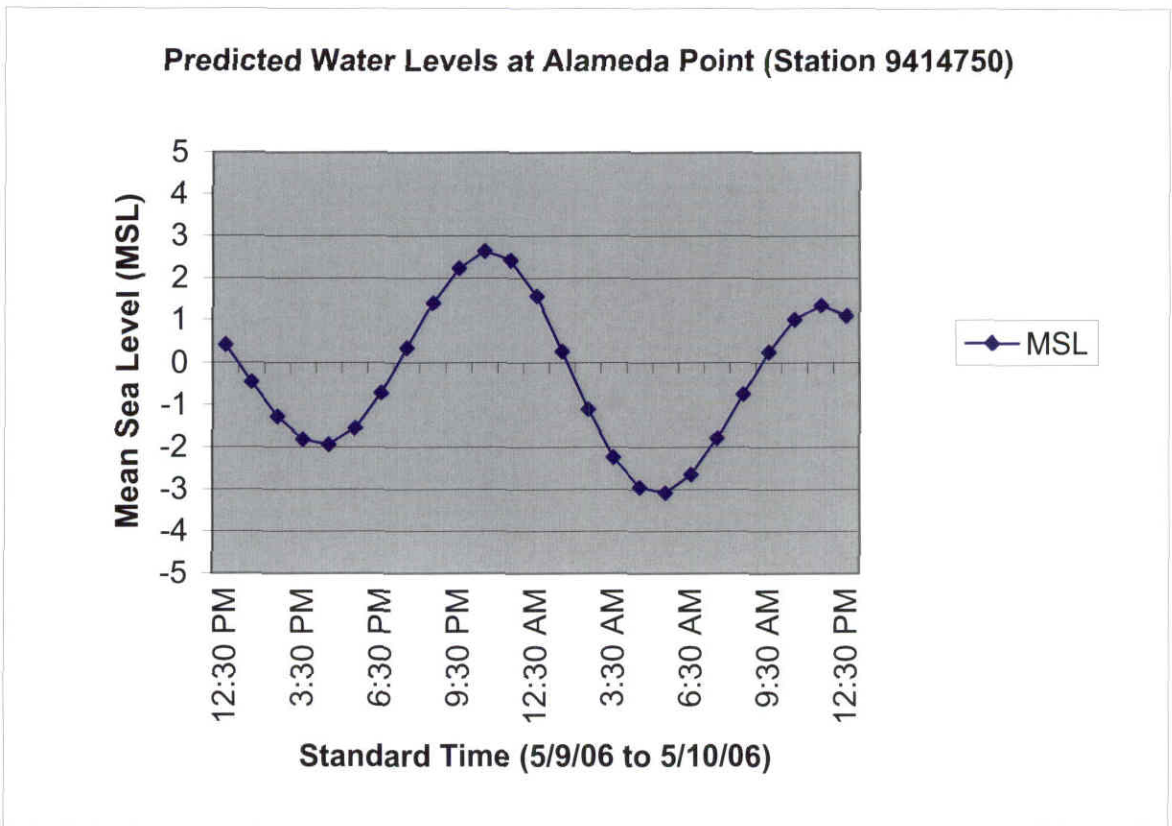

Alameda Tidal Study (IR 25) - Well M25-02
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
11:41 AM
2:41 PM
5:41 PM
8:41 PM
11:41 PM
2:41 AM
5:41 AM
8:41 AM
11:41 AM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

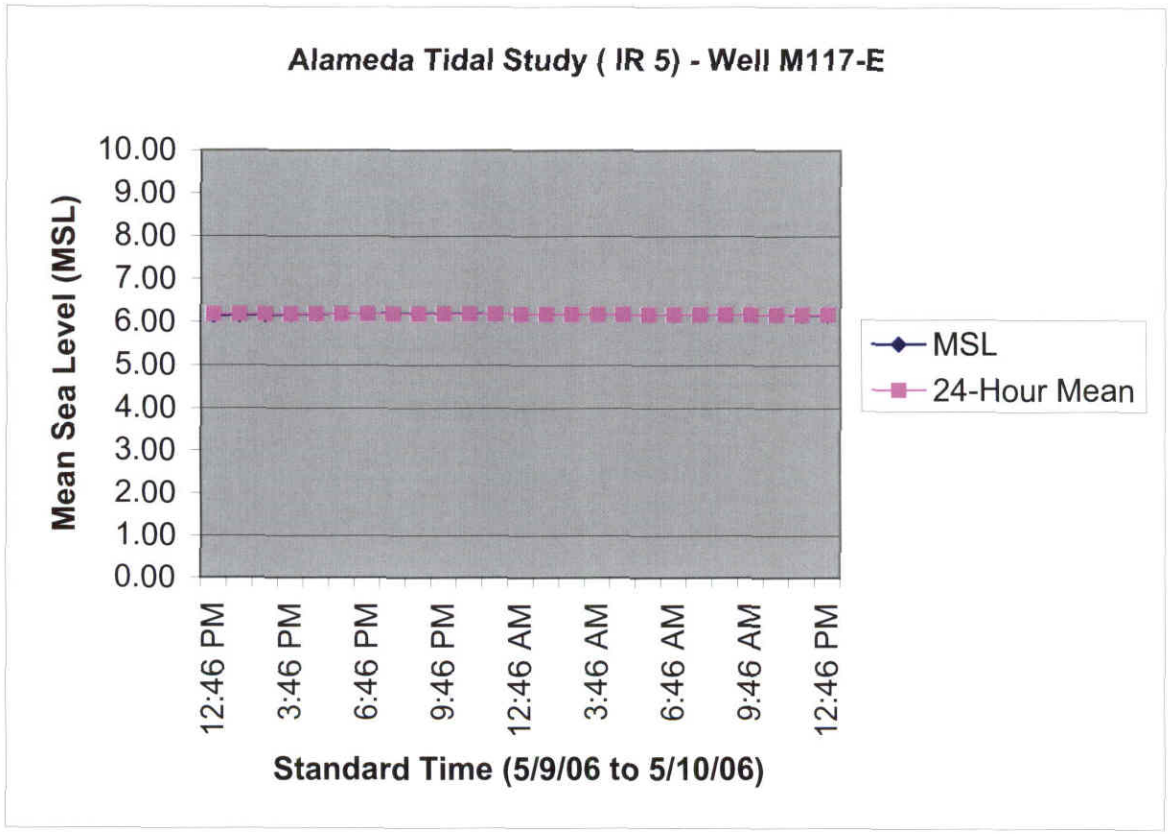

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
11:42 AM
2:42 PM
5:42 PM
8:42 PM
11:42 PM
2:42 AM
5:42 AM
8:42 AM
11:42 AM
Standard Time (5/9/06 to 5/10/06)
MSL

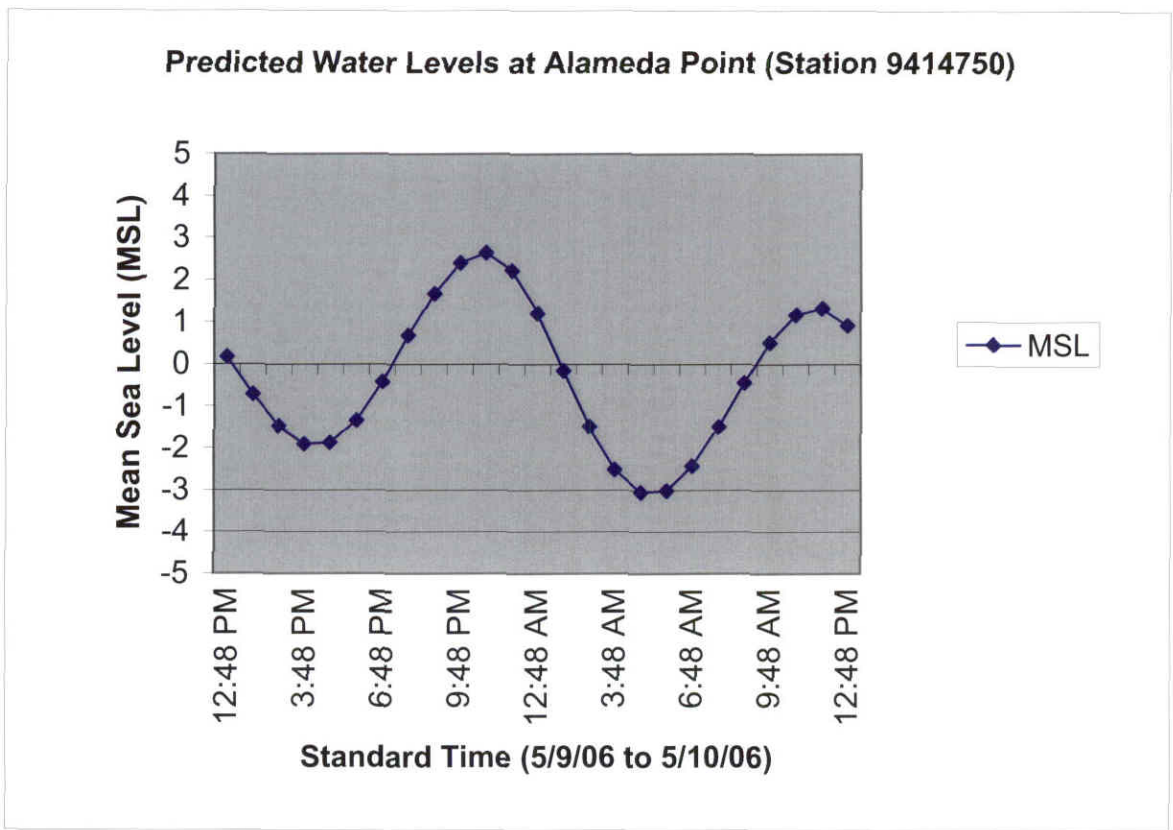

Alameda Tidal Study (IR 6) - Well M06-03
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
12:05 PM
3:05 PM
6:05 PM
9:05 PM
12:05 AM
3:05 AM
6:05 AM
9:05 AM
12:05 PM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

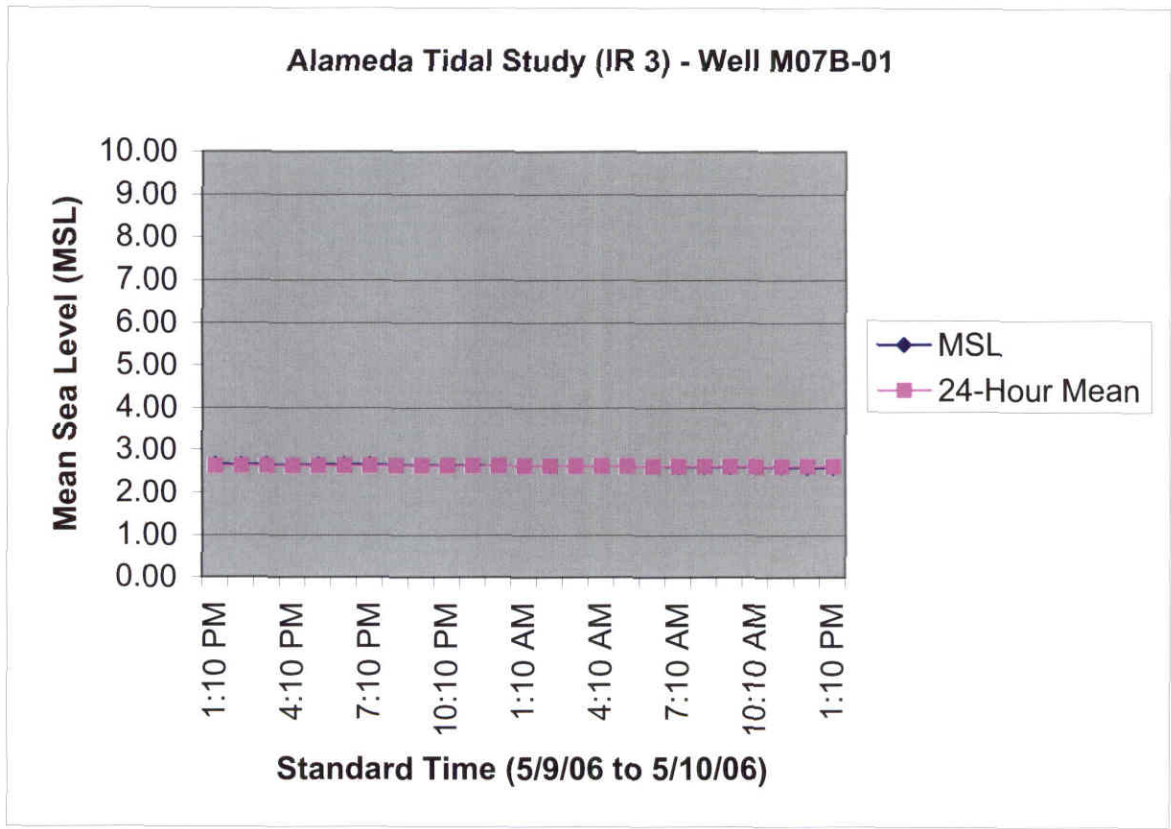

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
12:06 PM
3:06 PM
6:06 PM
9:06 PM
12:06 AM
3:06 AM
6:06 AM
9:06 AM
12:06 PM
Standard Time (5/9/06 to 5/10/06)
MSL


Alameda Tidal Study (IR 5) - Well M10-02
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
12:29 PM
2:29 PM
4:29 PM
6:29 PM
8:29 PM
10:29 PM
12:29 AM
2:29 AM
4:29 AM
6:29 AM
8:29 AM
10:29 AM
12:29 PM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
12:30 PM
3:30 PM
6:30 PM
9:30 PM
12:30 AM
3:30 AM
6:30 AM
9:30 AM
12:30 PM
Standard Time (5/9/06 to 5/10/06)
MSL


Alameda Tidal Study (IR 5) - Well M117-E
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
12:46 PM
3:46 PM
6:46 PM
9:46 PM
12:46 AM
3:46 AM
6:46 AM
9:46 AM
12:46 PM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
12:48 PM
3:48 PM
6:48 PM
9:48 PM
12:48 AM
3:48 AM
6:48 AM
9:48 AM
12:48 PM
Standard Time (5/9/06 to 5/10/06)
MSL


Alameda Tidal Study (IR 3) - Well M07B-01
Mean Sea Level (MSL)
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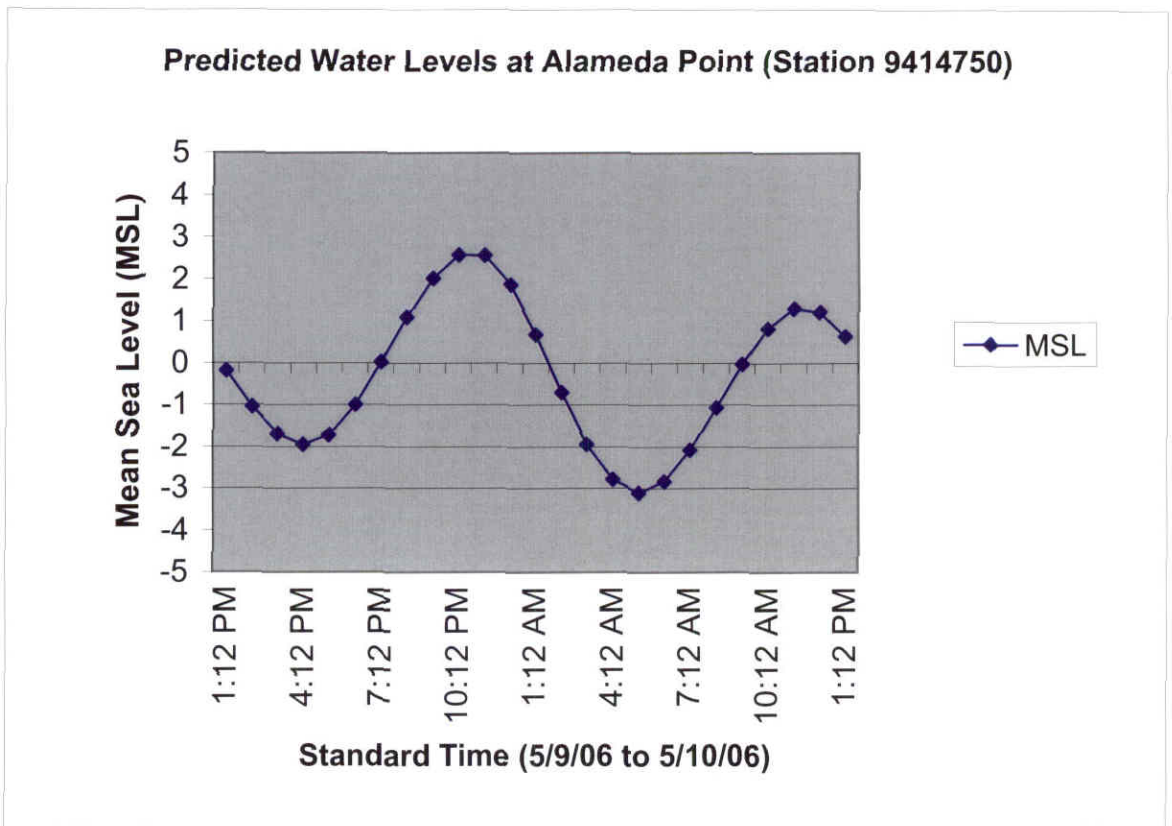
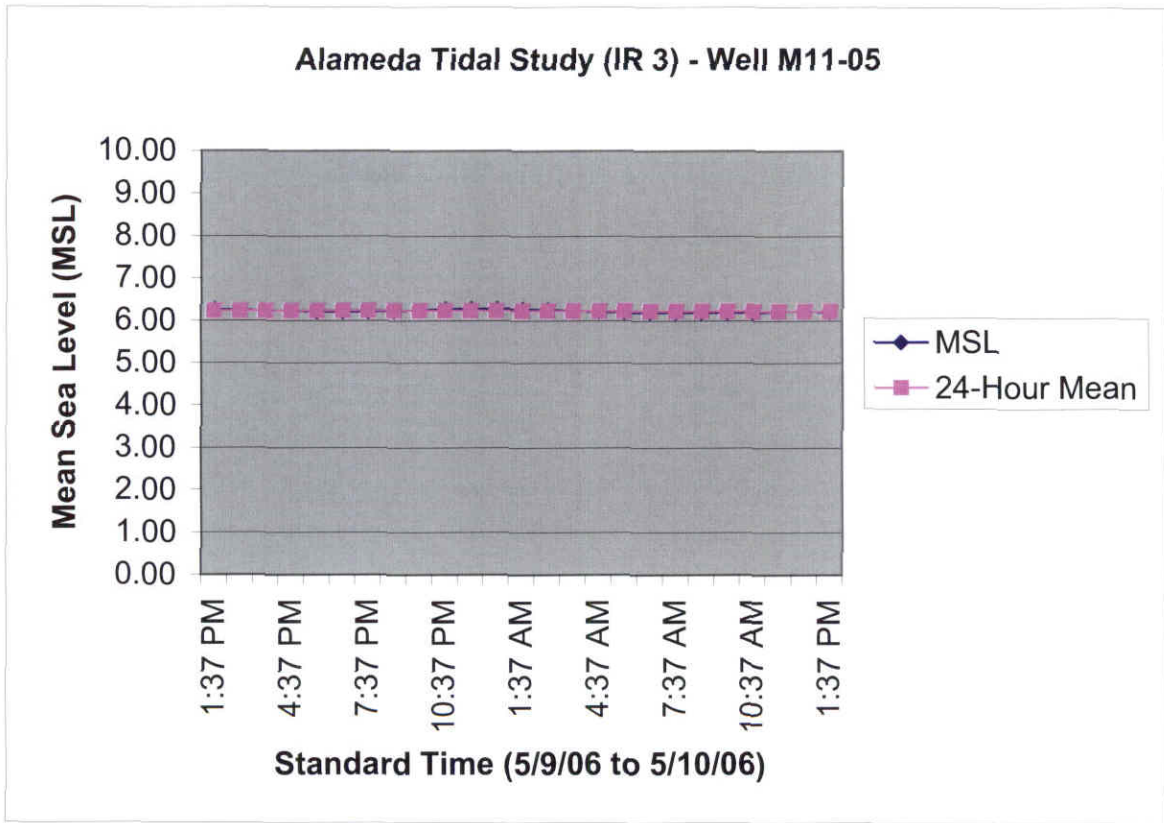
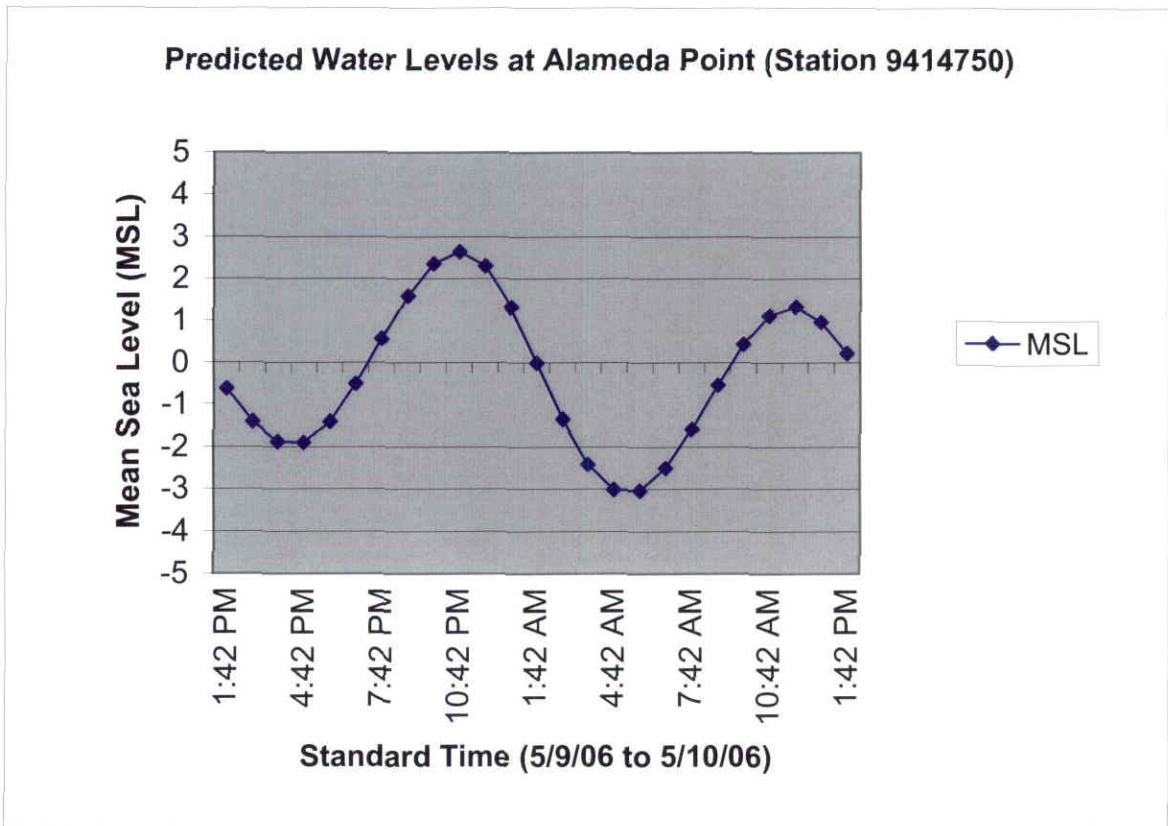
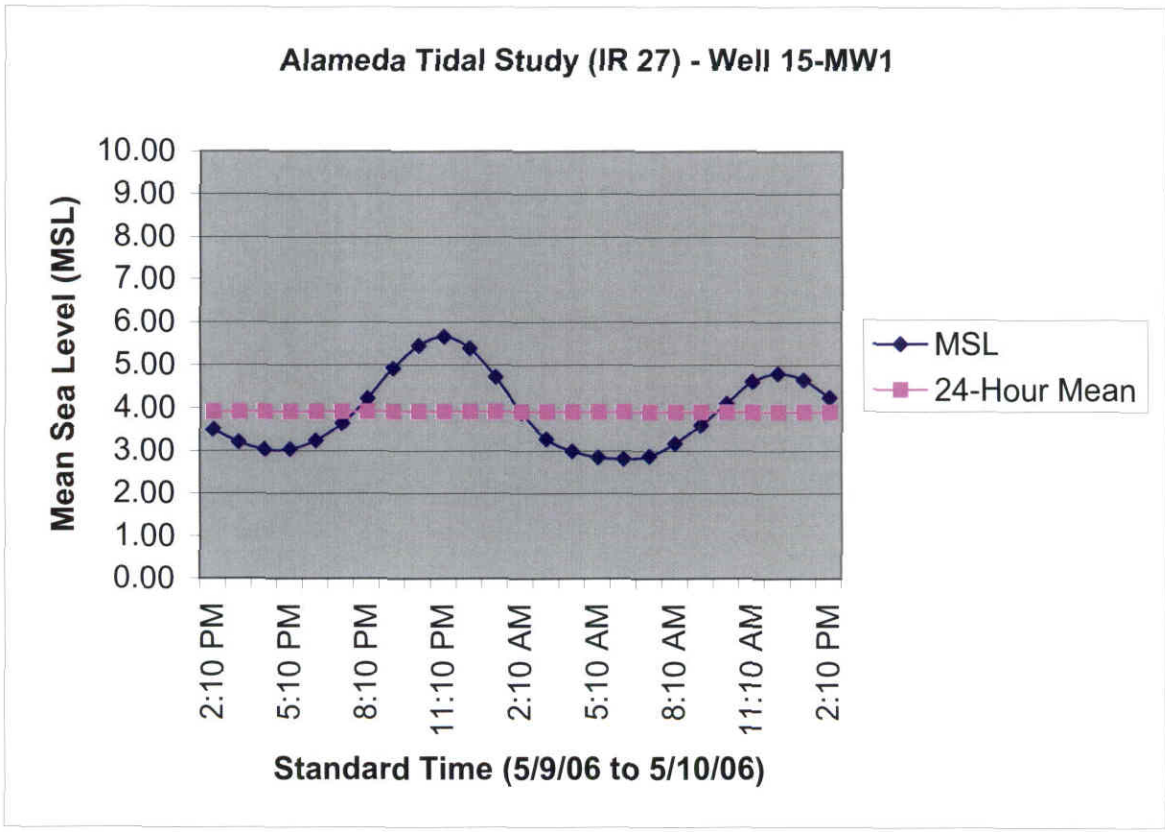
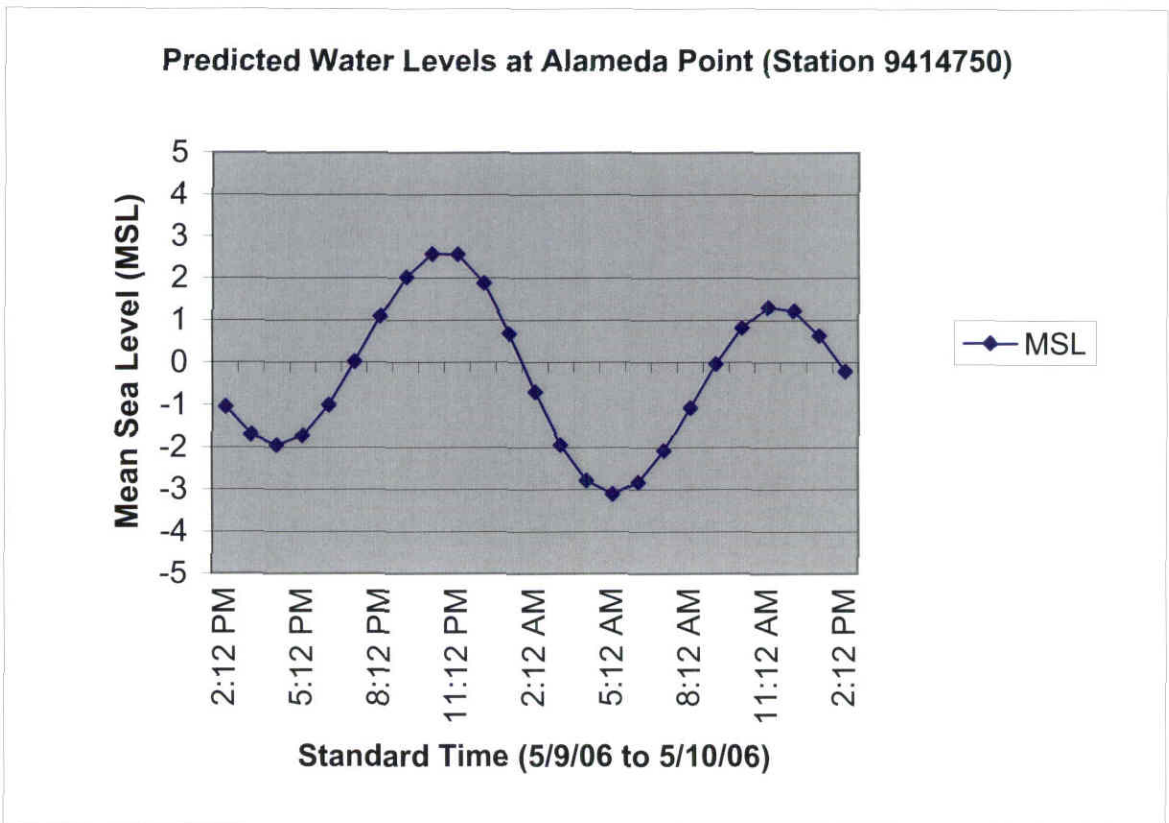
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1:10 PM
4:10 PM
7:10 PM
10:10 PM
1:10 AM
4:10 AM
7:10 AM
10:10 AM
1:10 PM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

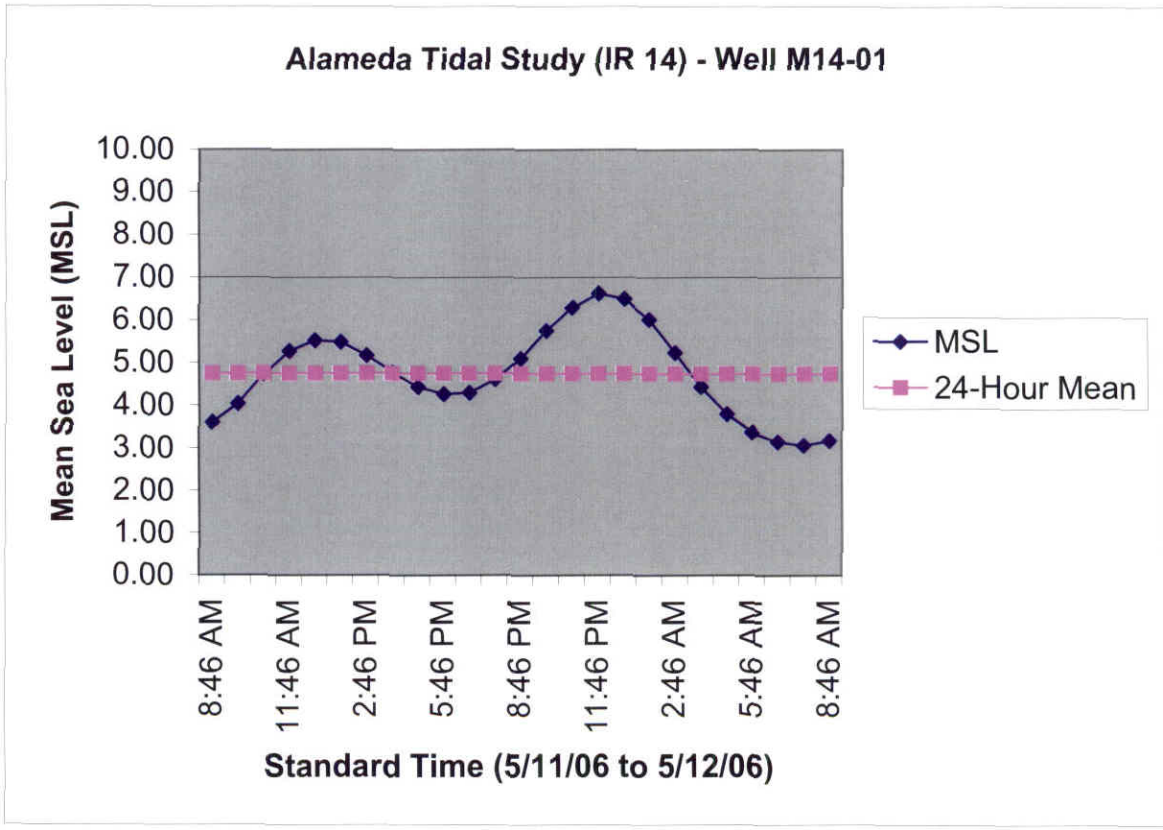

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
1:12 PM
4:12 PM
7:12 PM
10:12 PM
1:12 AM
4:12 AM
7:12 AM
10:12 AM
1:12 PM
Standard Time (5/9/06 to 5/10/06)
MSL

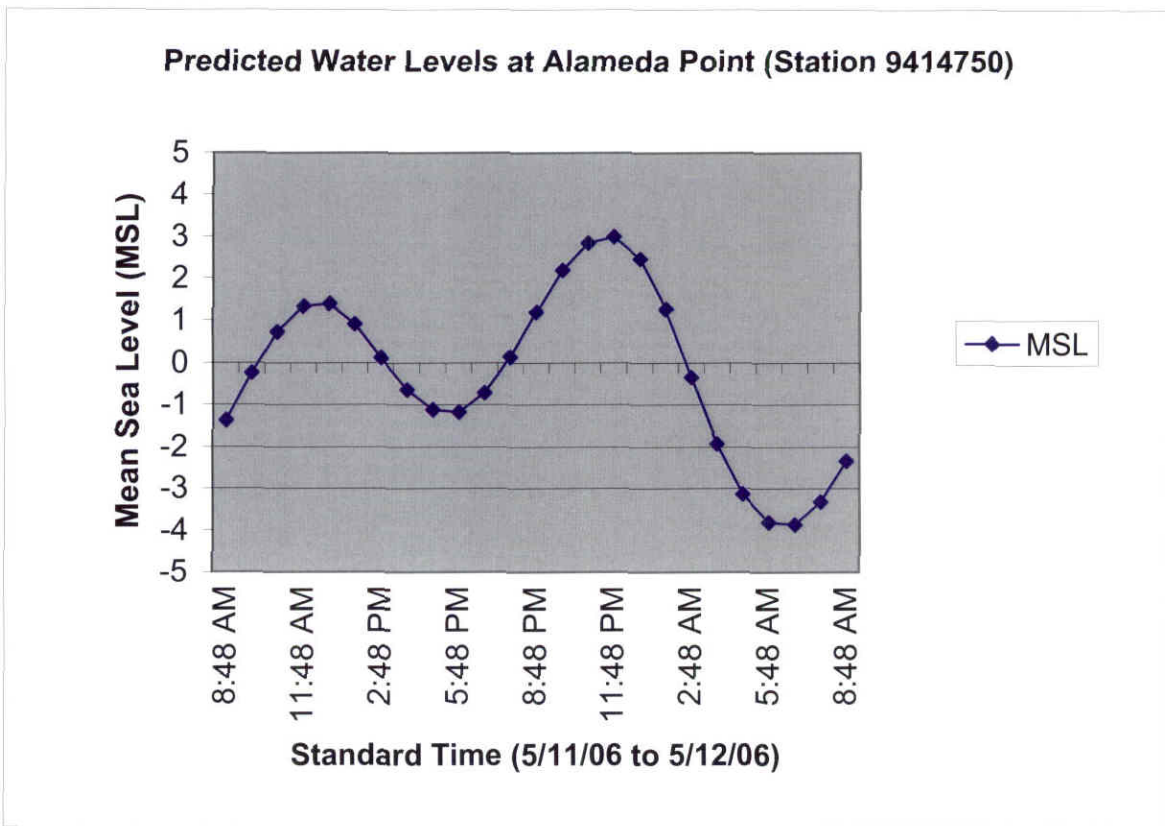

Alameda Tidal Study (IR 3) - Well M11-05
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
1:37 PM
4:37 PM
7:37 PM
10:37 PM
1:37 AM
4:37 AM
7:37 AM
10:37 AM
1:37 PM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

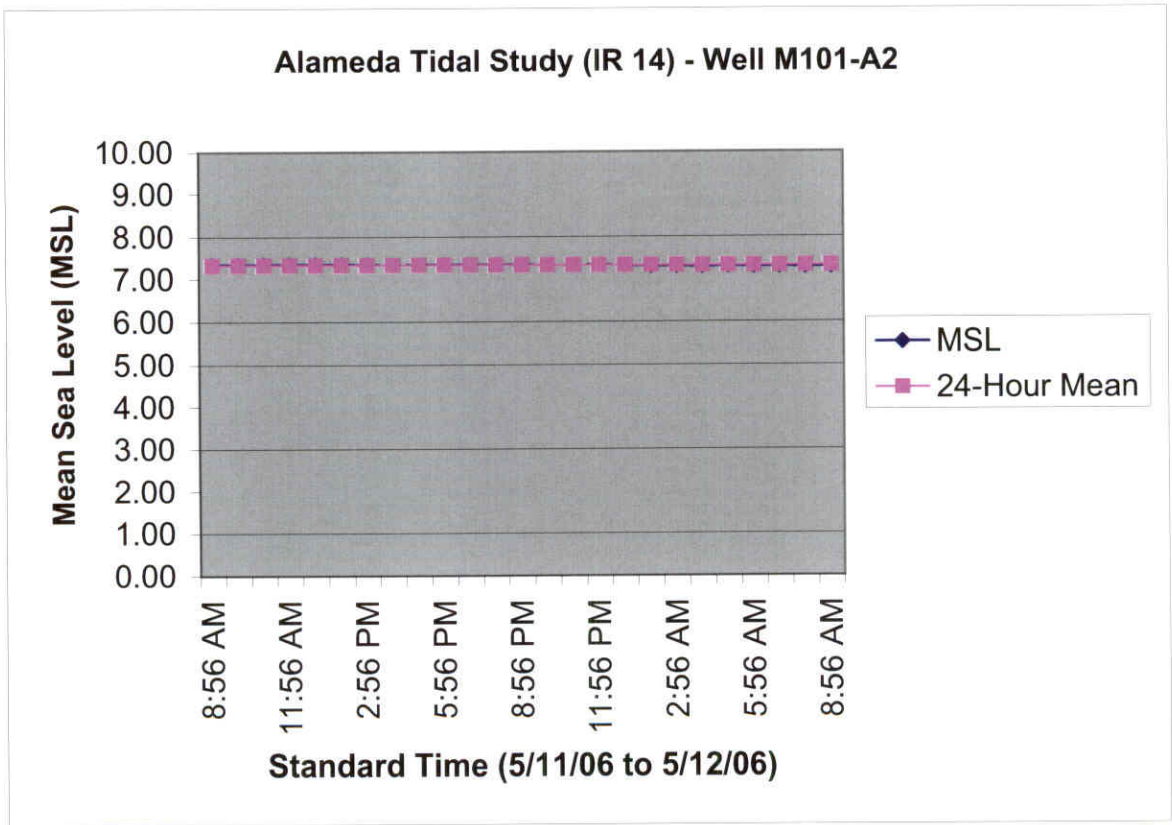

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
1:42 PM
4:42 PM
7:42 PM
10:42 PM
1:42 AM
4:42 AM
7:42 AM
10:42 AM
1:42 PM
Standard Time (5/9/06 to 5/10/06)
MSL

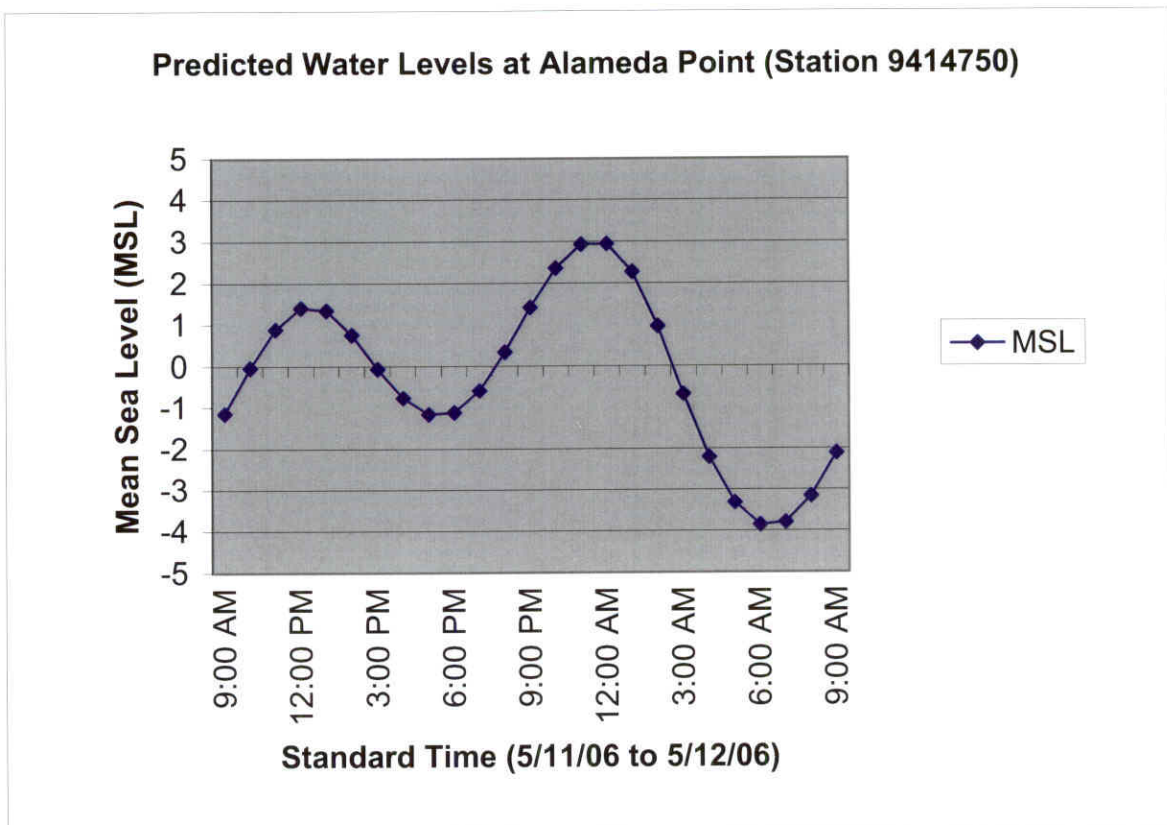

Alameda Tidal Study (IR 27) - Well 15-MW1
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
2:10 PM
5:10 PM
8:10 PM
11:10 PM
2:10 AM
5:10 AM
8:10 AM
11:10 AM
2:10 PM
Standard Time (5/9/06 to 5/10/06)
MSL
24-Hour Mean

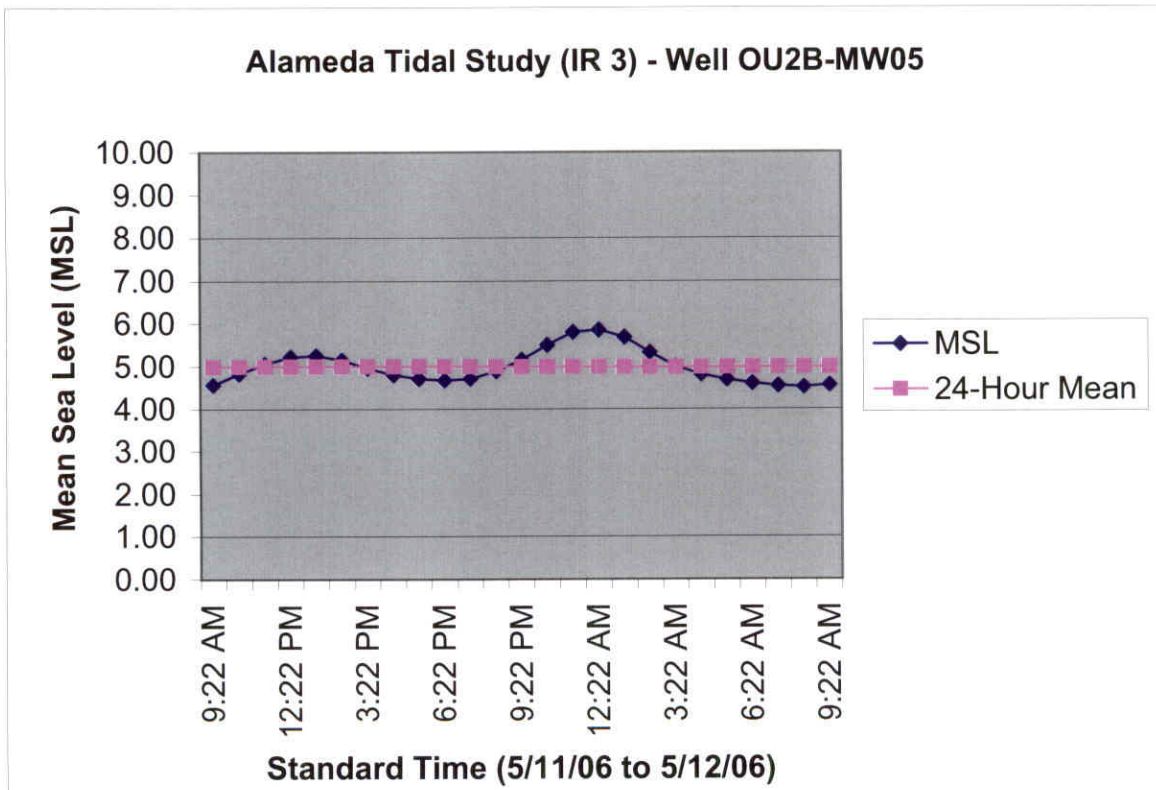

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
2:12 PM
5:12 PM
8:12 PM
11:12 PM
2:12 AM
5:12 AM
8:12 AM
11:12 AM
2:12 PM
Standard Time (5/9/06 to 5/10/06)
MSL

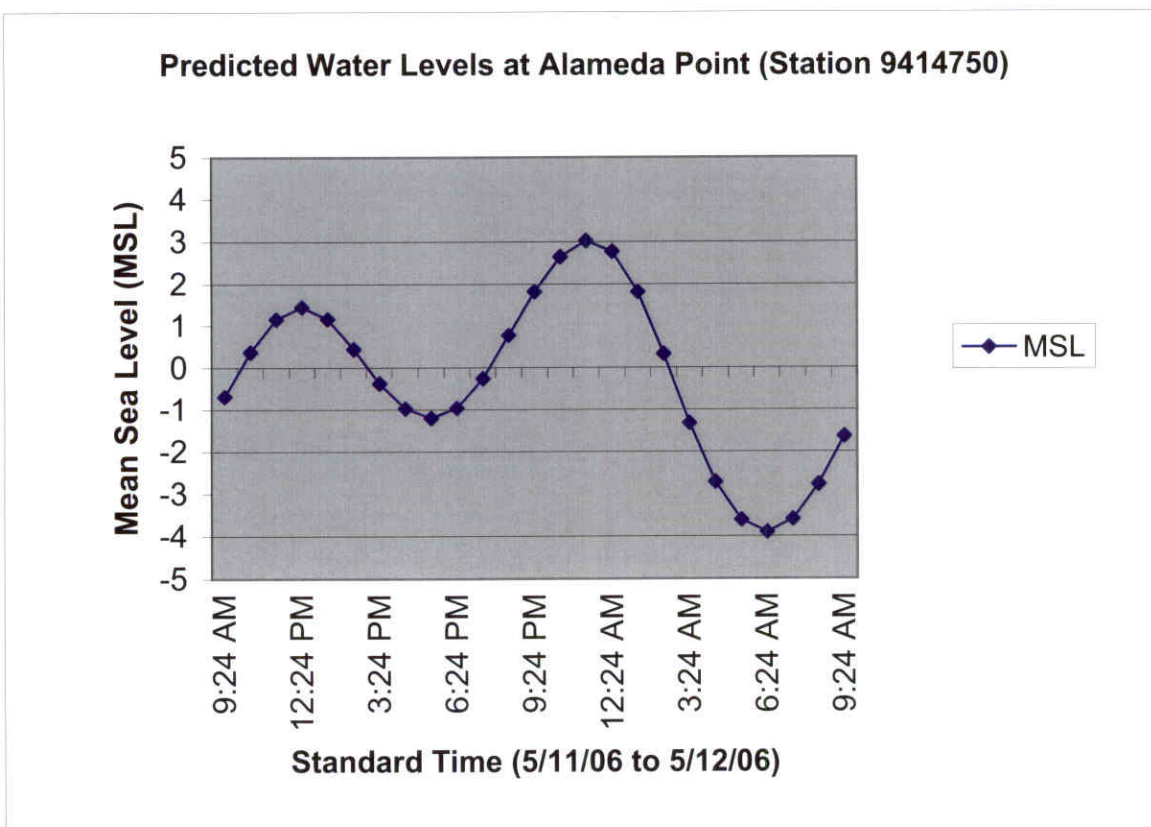

Alameda Tidal Study (IR 14) - Well M14-01
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8:46 AM
11:46 AM
2:46 PM
5:46 PM
8:46 PM
11:46 PM
2:46 AM
5:46 AM
8:46 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean

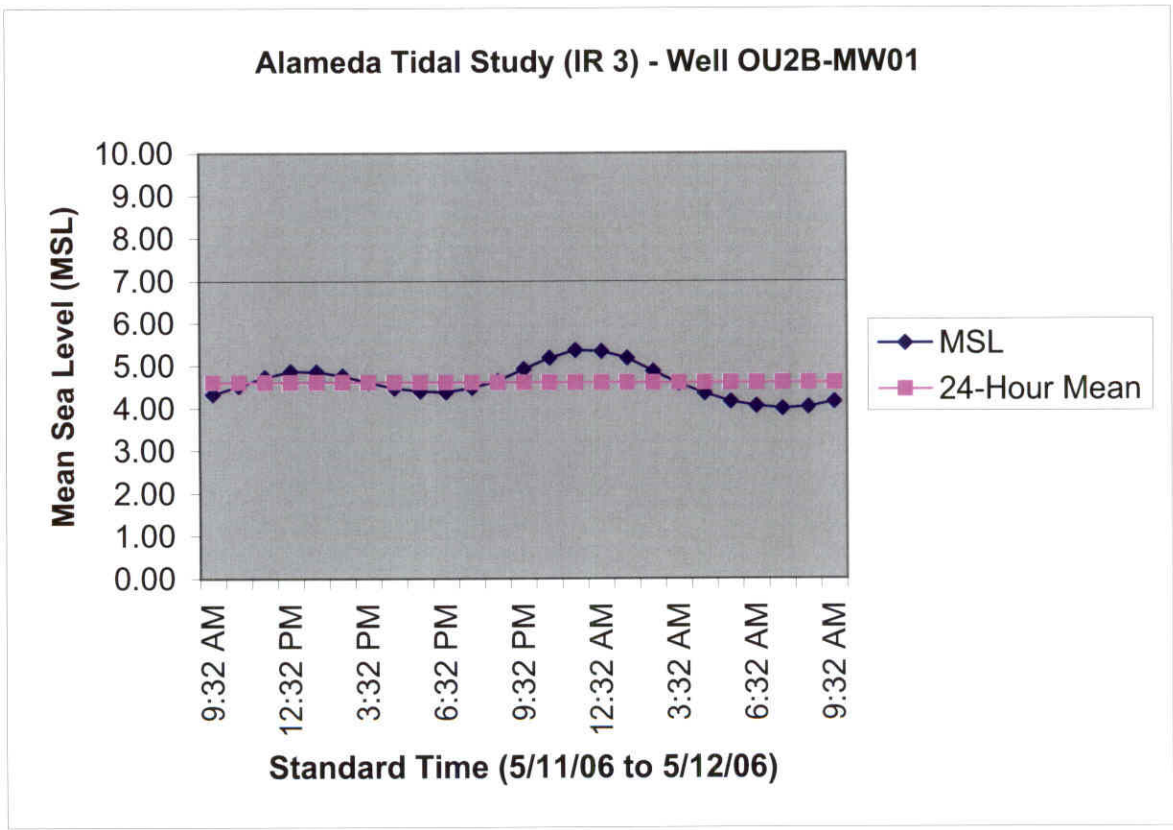

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
8:48 AM
11:48 AM
2:48 PM
5:48 PM
8:48 PM
11:48 PM
2:48 AM
5:48 AM
8:48 AM
Standard Time (5/11/06 to 5/12/06)
MSL


Alameda Tidal Study (IR 14) - Well M101-A2
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
8:56 AM
11:56 AM
2:56 PM
5:56 PM
8:56 PM
11:56 PM
2:56 AM
5:56 AM
8:56 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
9:00 AM
12:00 PM
3:00 PM
6:00 PM
9:00 PM
12:00 AM
3:00 AM
6:00 AM
9:00 AM
Standard Time (5/11/06 to 5/12/06)
MSL


Alameda Tidal Study (IR 3) - Well OU2B-MW05
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
9:22 AM
12:22 PM
3:22 PM
6:22 PM
9:22 PM
12:22 AM
3:22 AM
6:22 AM
9:22 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
9:24 AM
12:24 PM
3:24 PM
6:24 PM
9:24 PM
12:24 AM
3:24 AM
6:24 AM
9:24 AM
Standard Time (5/11/06 to 5/12/06)
MSL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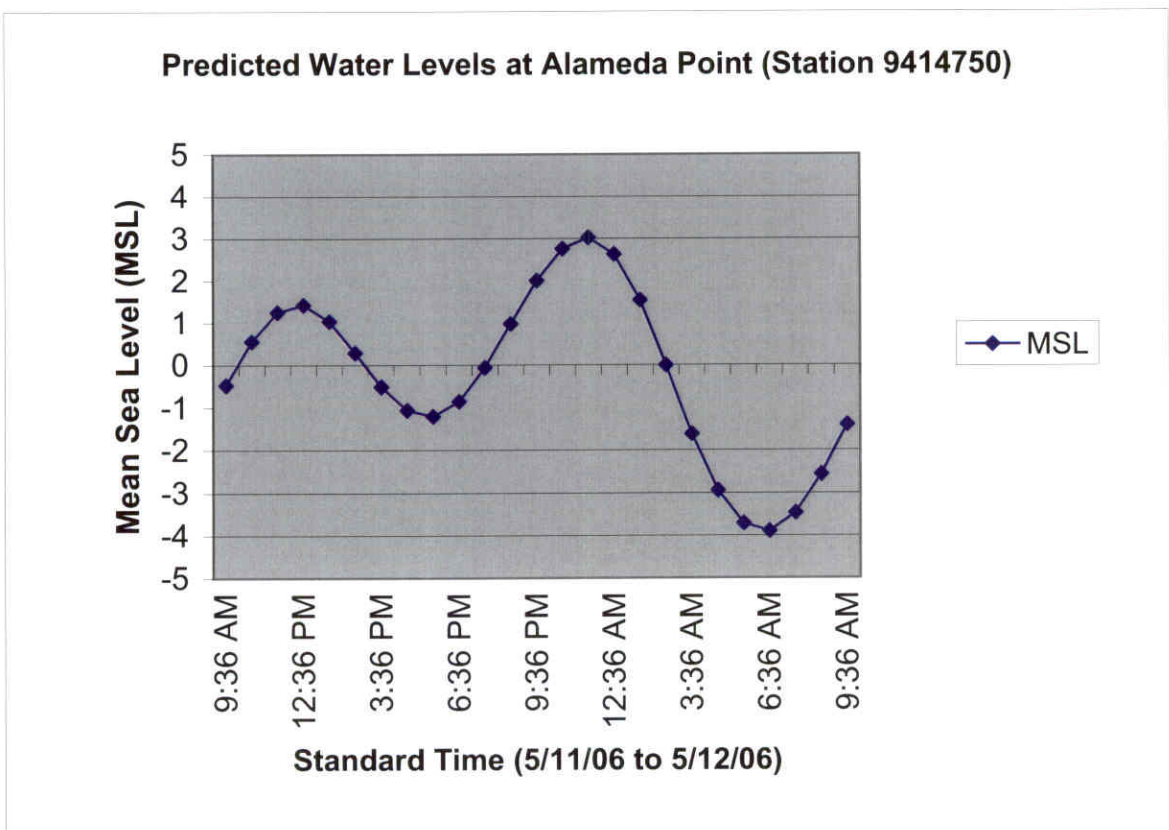
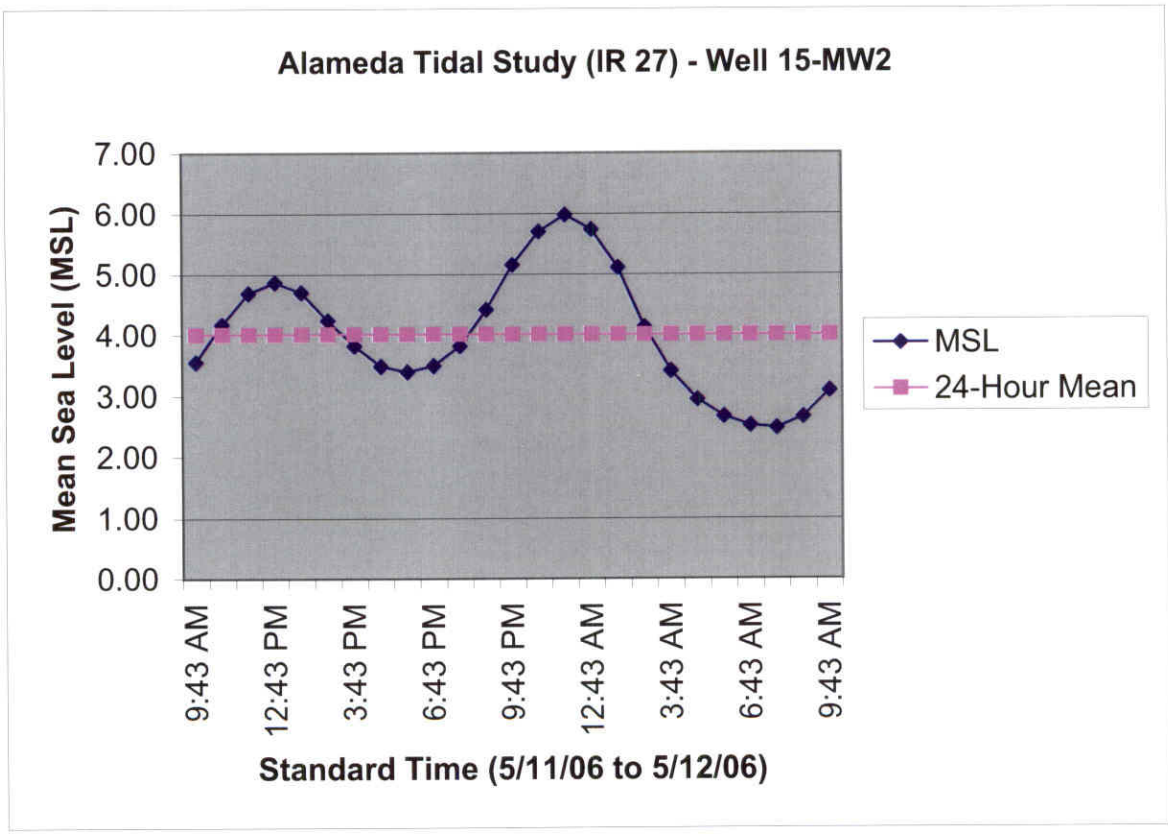
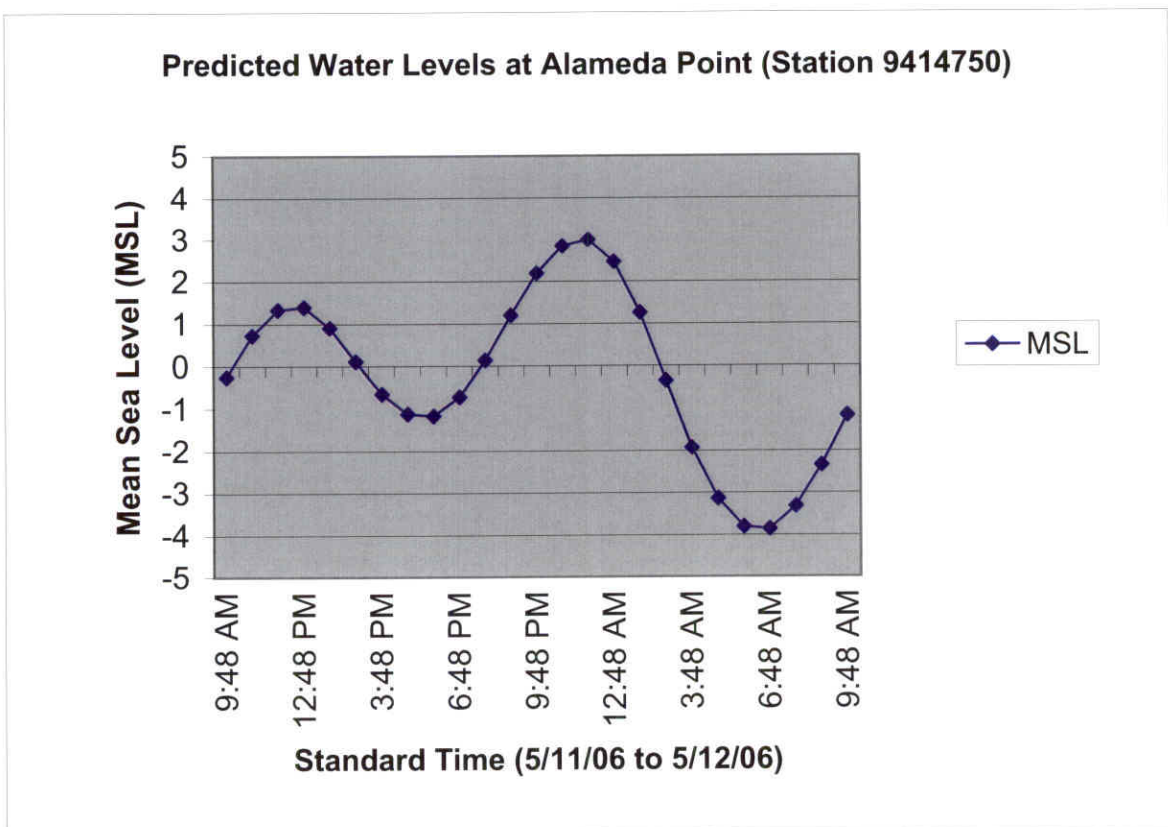
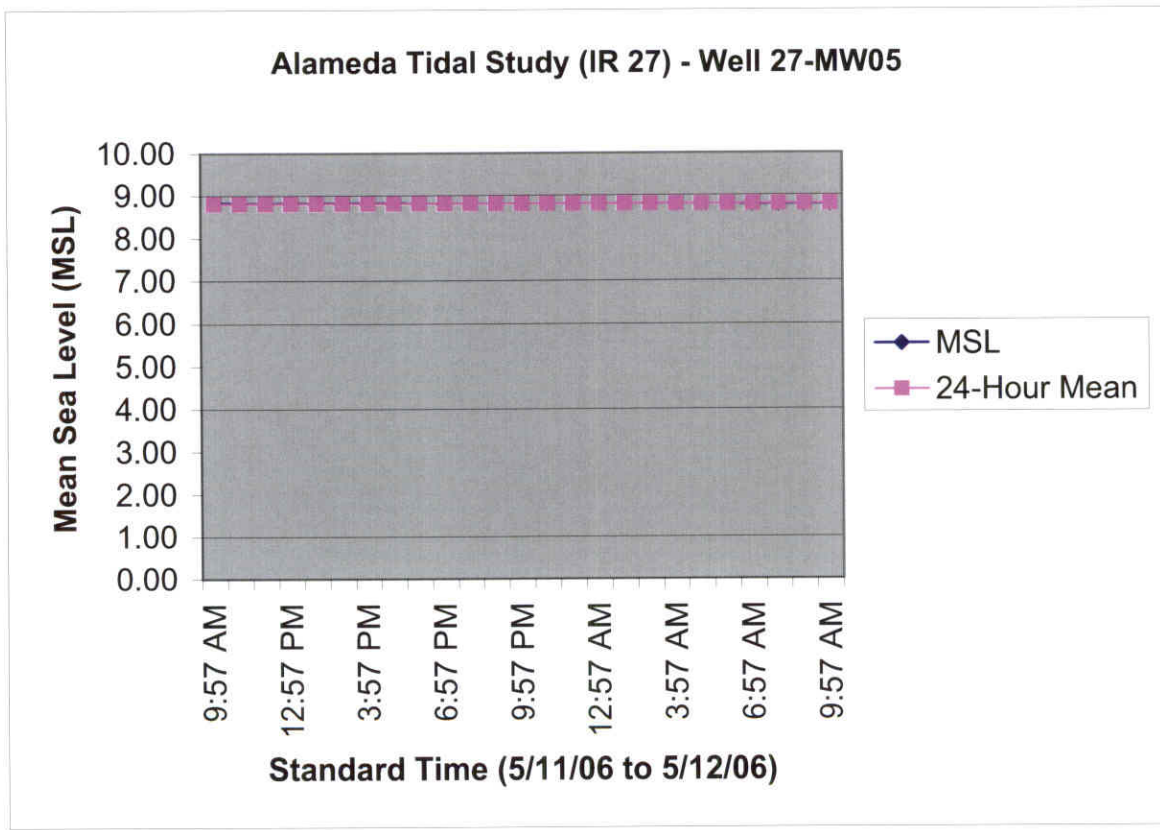
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
9:32 AM
12:32 PM
3:32 PM
6:32 PM
9:32 PM
12:32 AM
3:32 AM
6:32 AM
9:32 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
9:36 AM
12:36 PM
3:36 PM
6:36 PM
9:36 PM
12:36 AM
3:36 AM
6:36 AM
9:36 AM
Standard Time (5/11/06 to 5/12/06)
MSL


Alameda Tidal Study (IR 27) - Well 15-MW2
Mean Sea Level (MSL)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
9:43 AM
12:43 PM
3:43 PM
6:43 PM
9:43 PM
12:43 AM
3:43 AM
6:43 AM
9:43 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
9:48 AM
12:48 PM
3:48 PM
6:48 PM
9:48 PM
12:48 AM
3:48 AM
6:48 AM
9:48 AM
Standard Time (5/11/06 to 5/12/06)
MSL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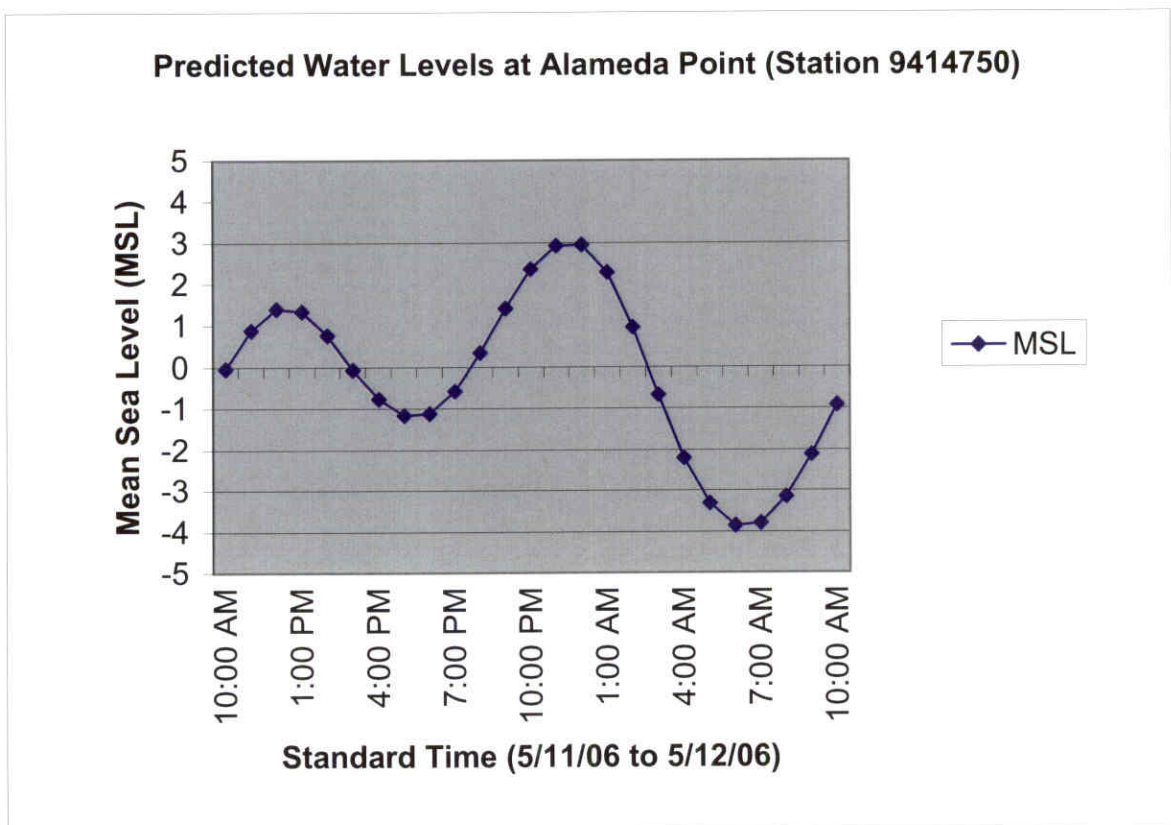
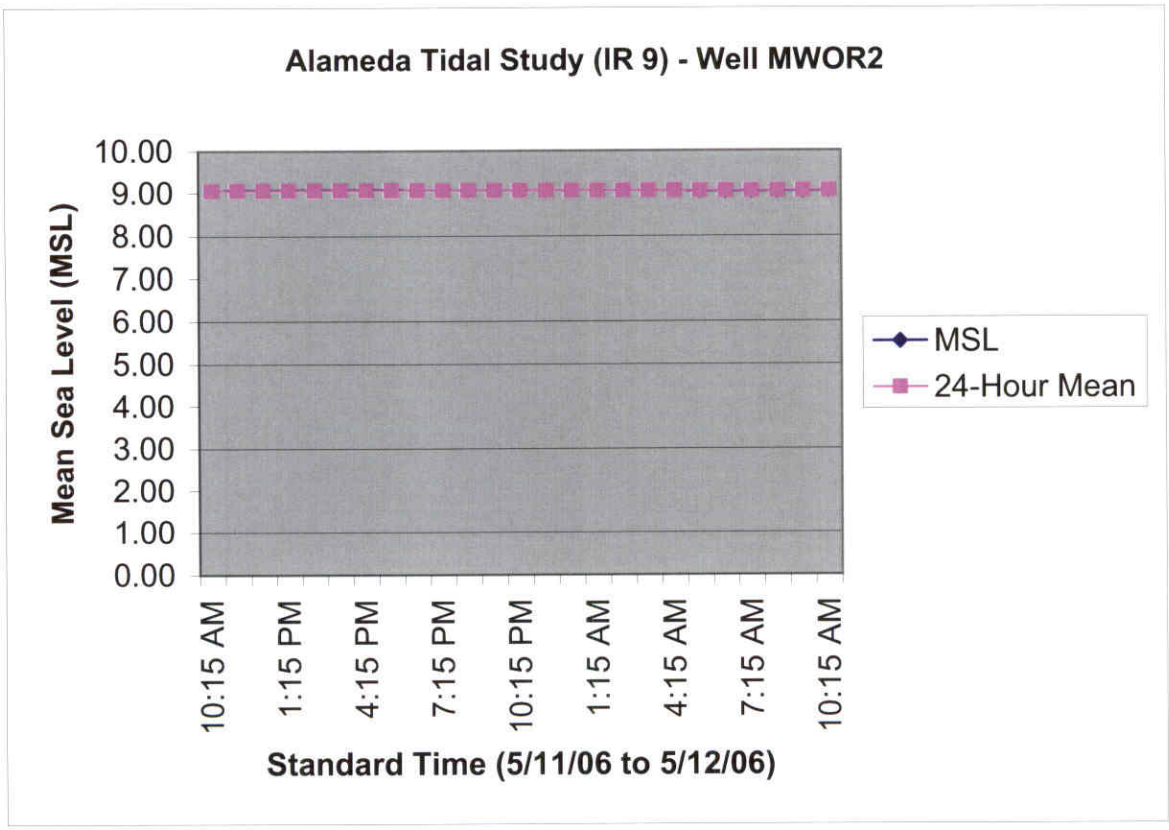
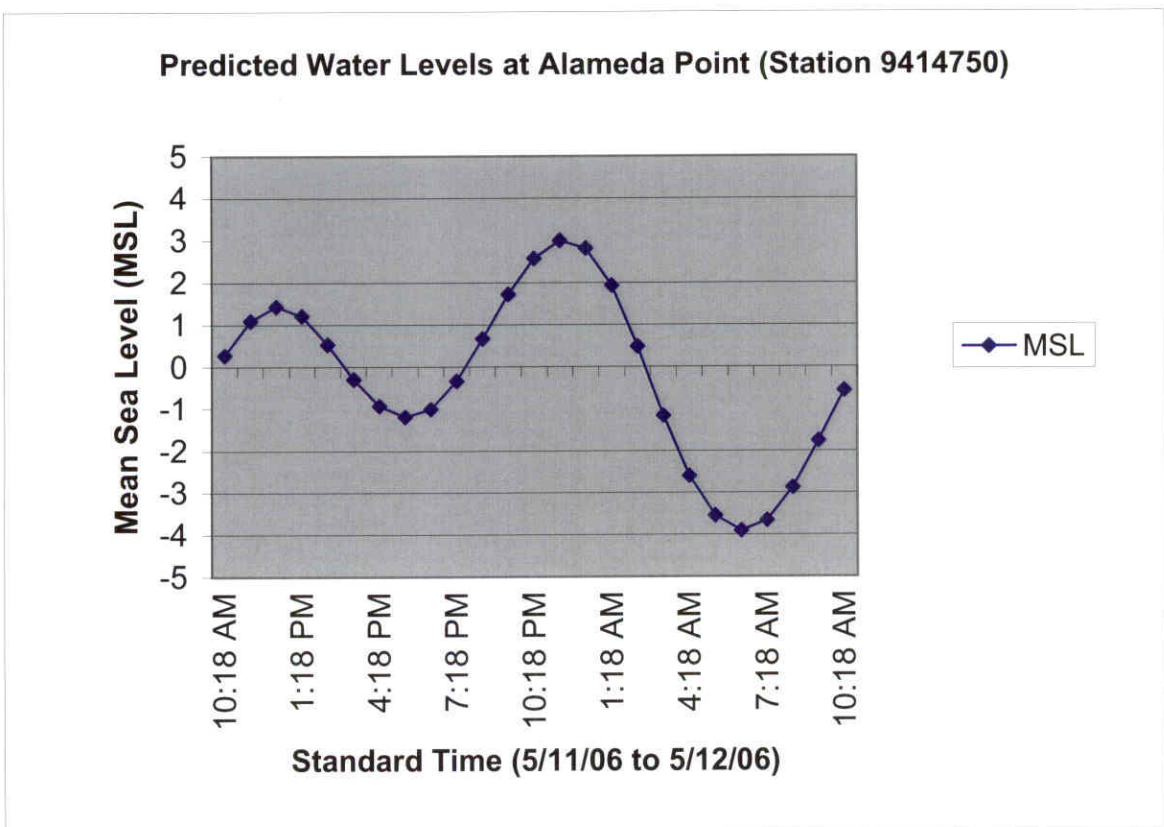
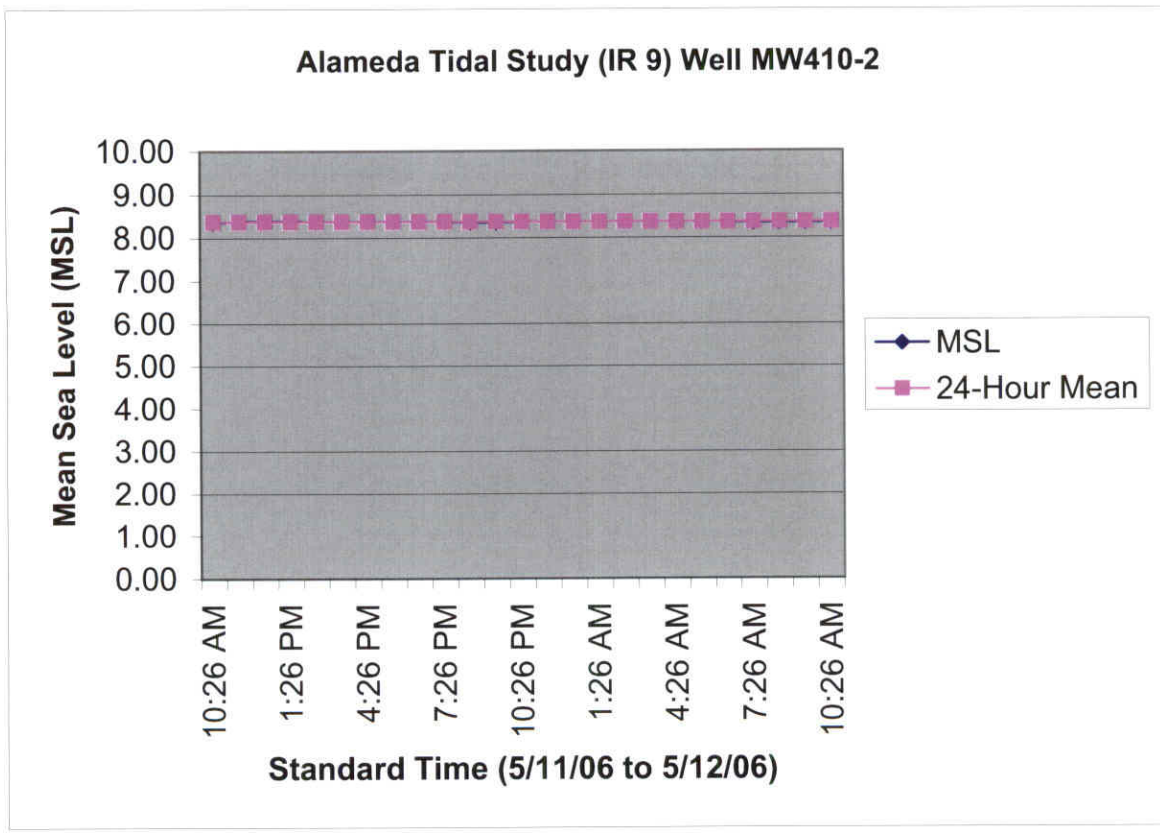
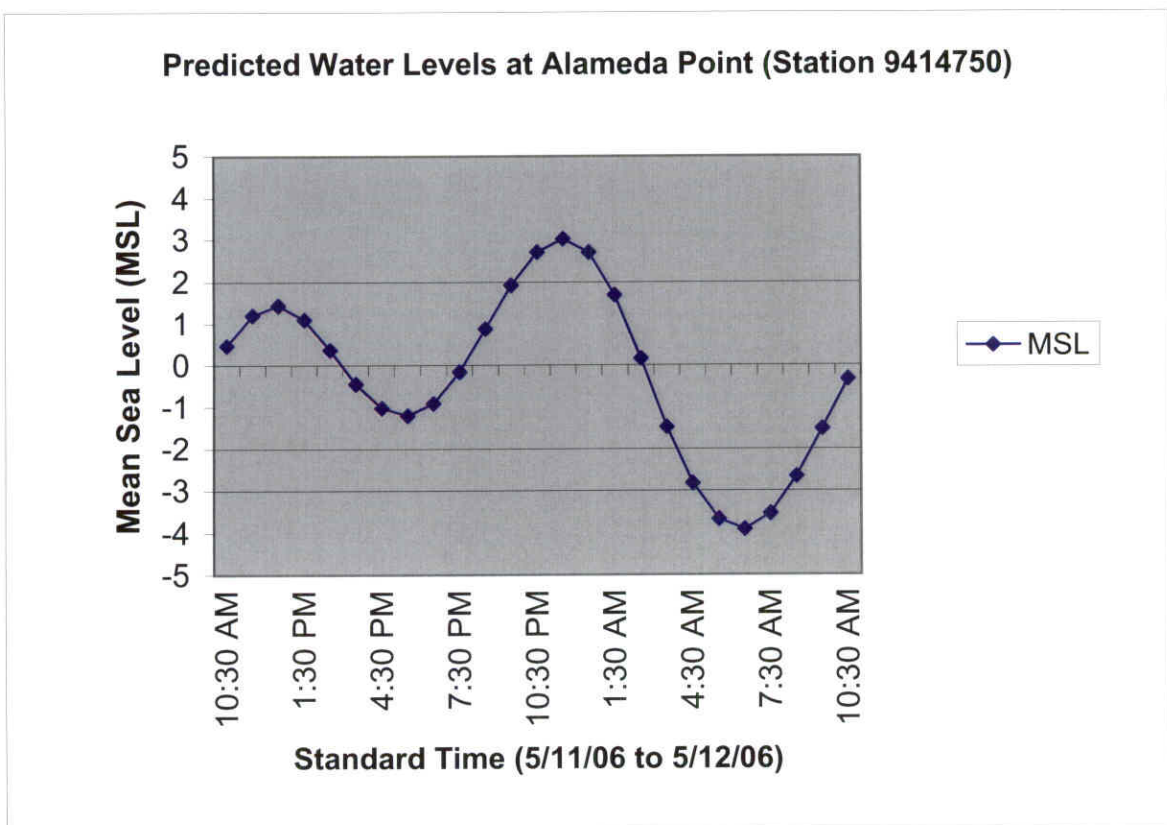
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
9:57 AM
12:57 PM
3:57 PM
6:57 PM
9:57 PM
12:57 AM
3:57 AM
6:57 AM
9:57 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean

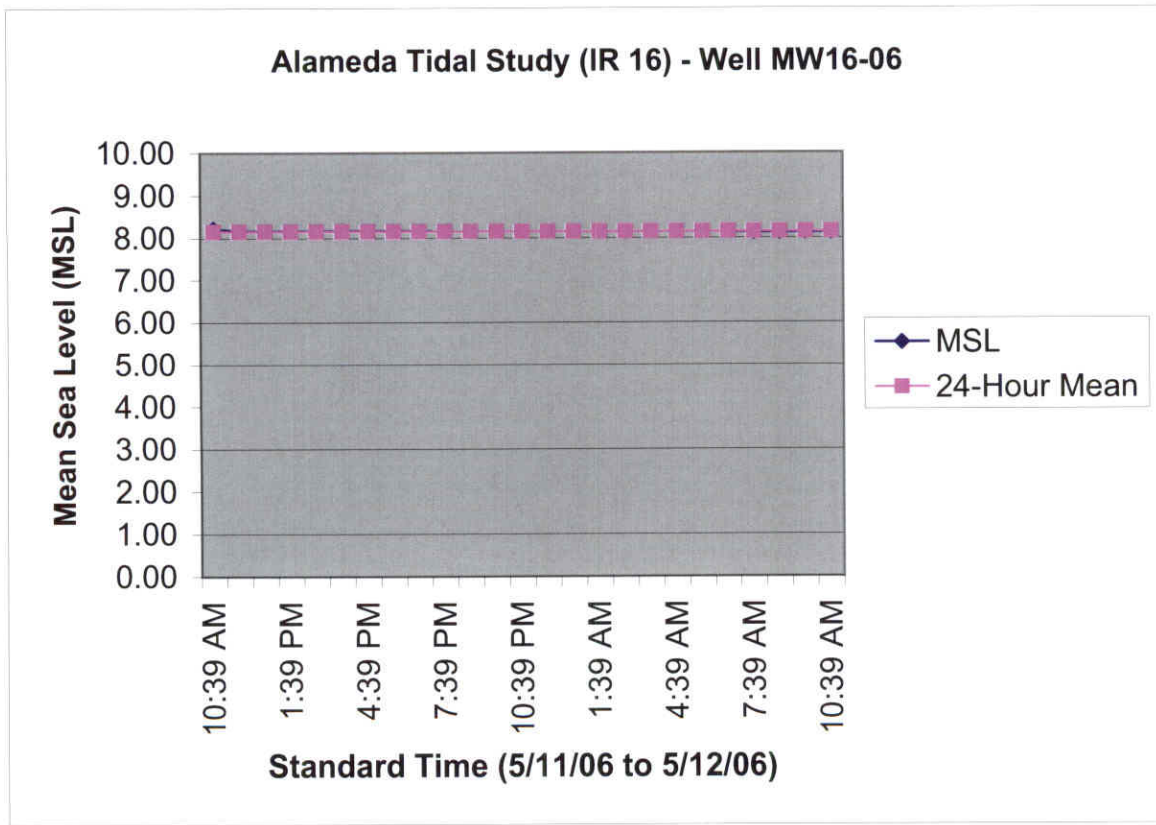

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
10:00 AM
1:00 PM
4:00 PM
7:00 PM
10:00 PM
1:00 AM
4:00 AM
7:00 AM
10:00 AM
Standard Time (5/11/06 to 5/12/06)
MSL

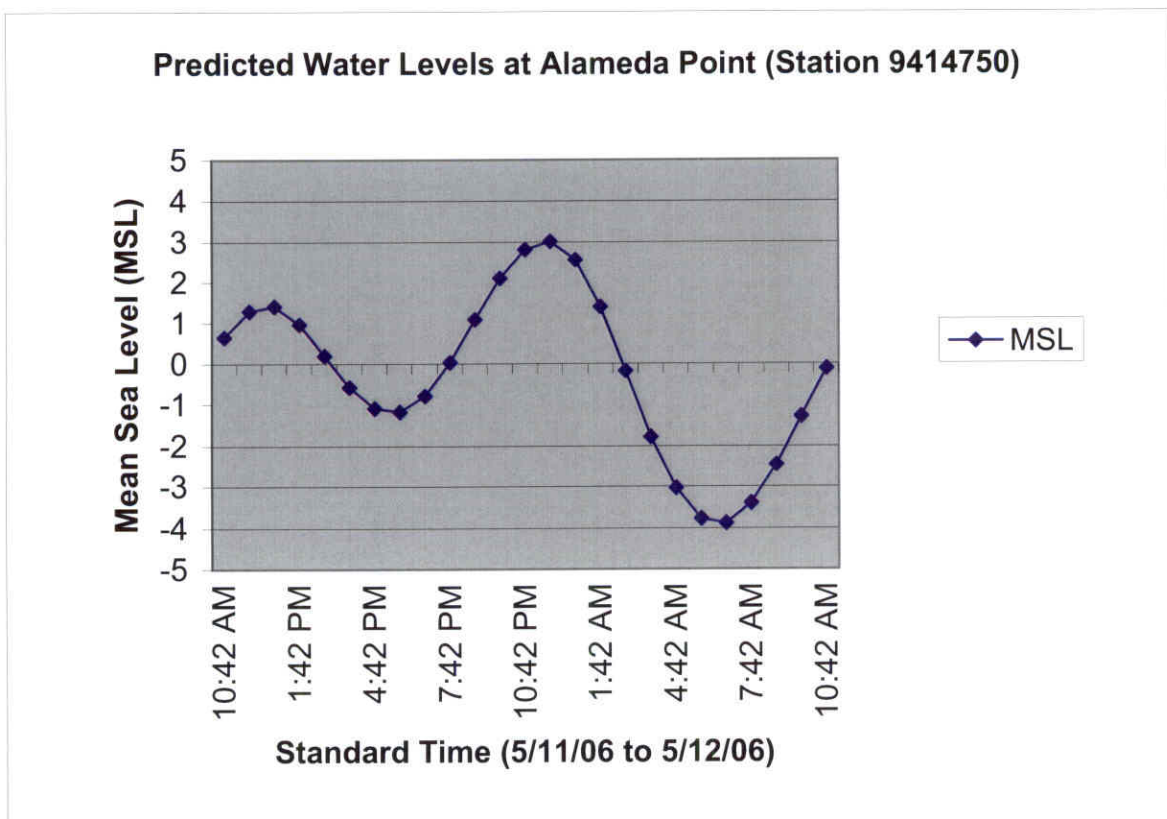

Alameda Tidal Study (IR 9) - Well MWOR2
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10:15 AM
1:15 PM
4:15 PM
7:15 PM
10:15 PM
1:15 AM
4:15 AM
7:15 AM
10:15 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean

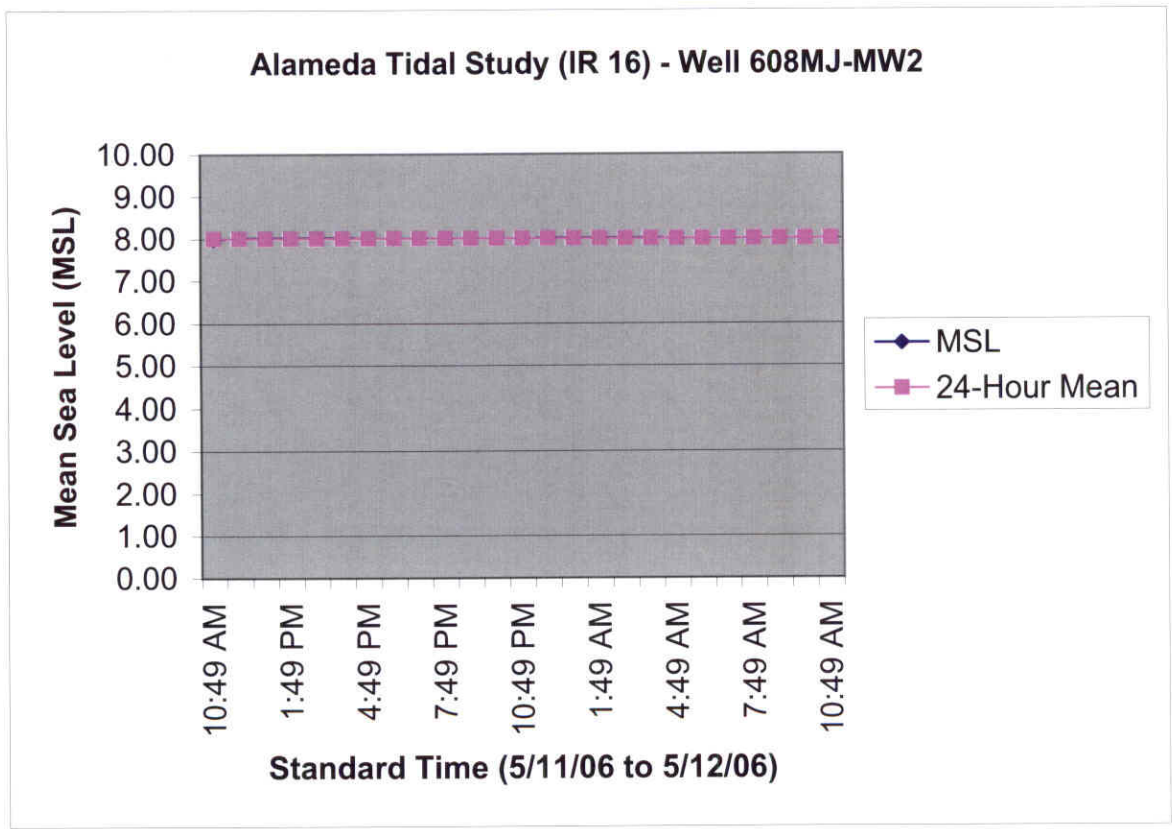

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
10:18 AM
1:18 PM
4:18 PM
7:18 PM
10:18 PM
1:18 AM
4:18 AM
7:18 AM
10:18 AM
Standard Time (5/11/06 to 5/12/06)
MSL

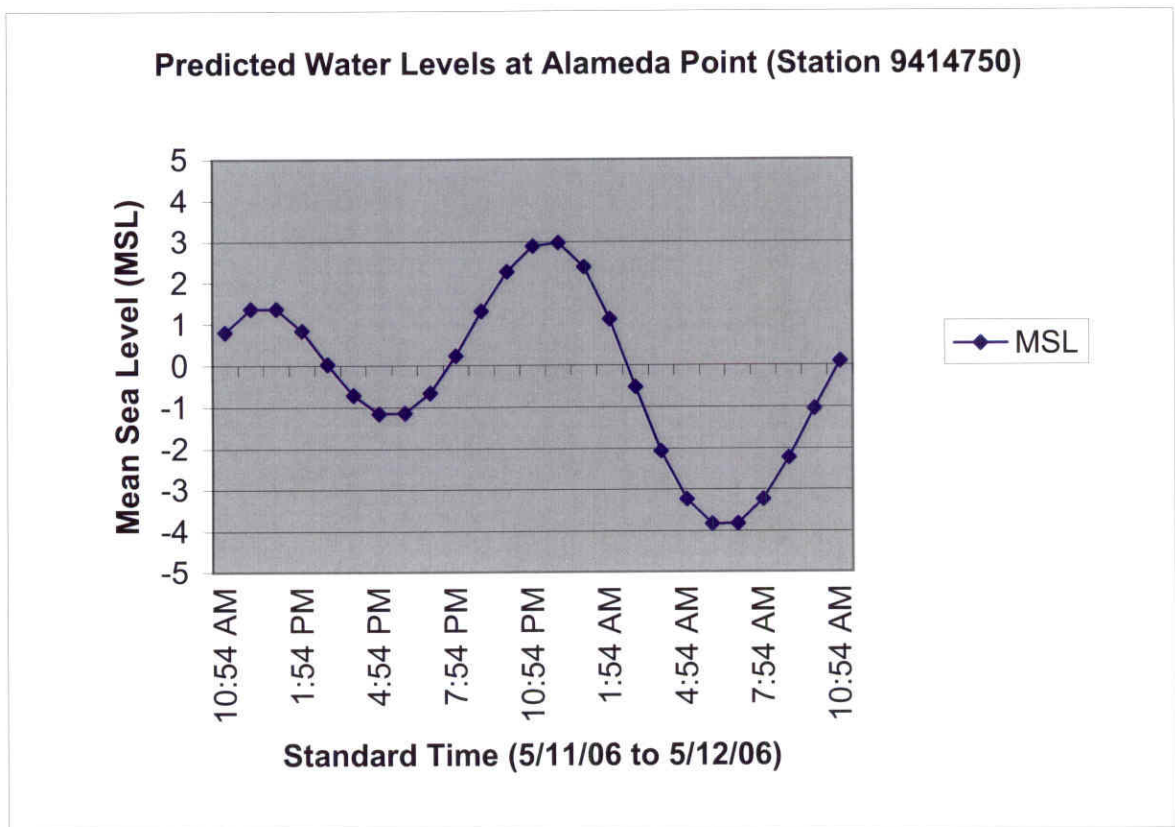

Alameda Tidal Study (IR 9) Well MW410-2
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10:26 AM
1:26 PM
4:26 PM
7:26 PM
10:26 PM
1:26 AM
4:26 AM
7:26 AM
10:26 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean

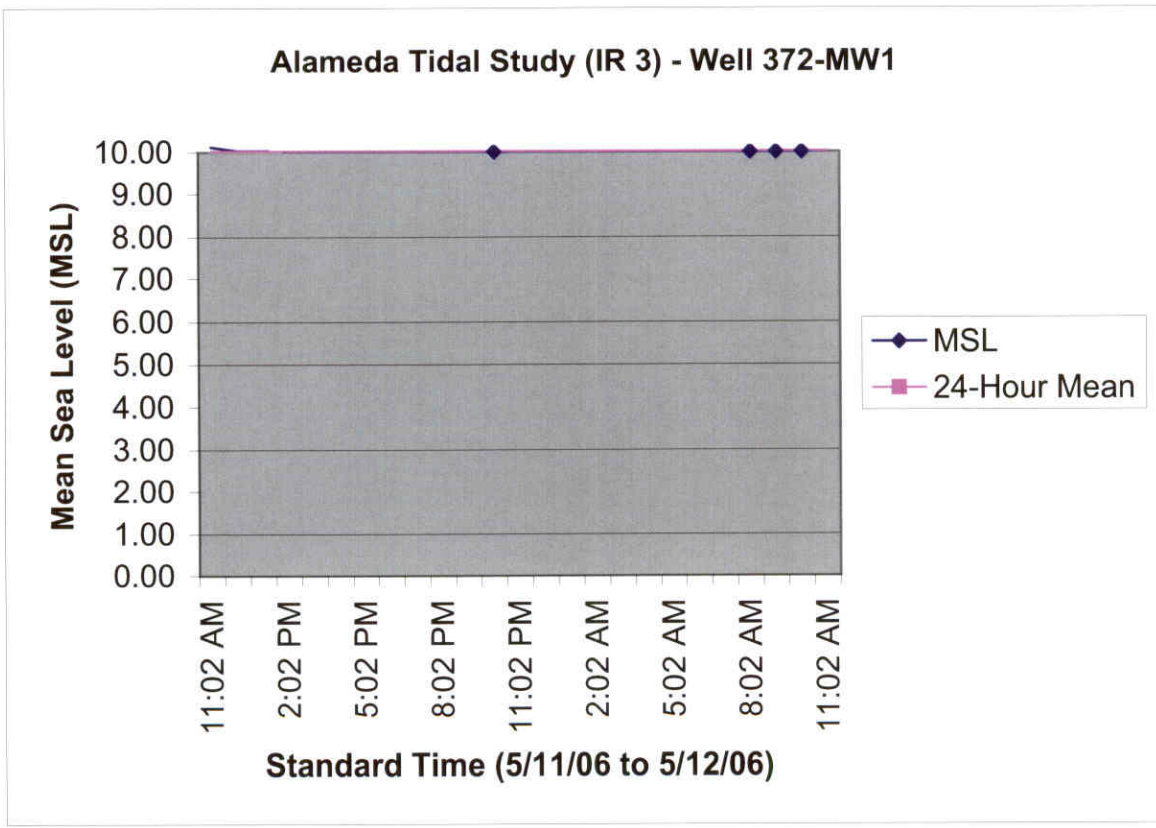

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
10:30 AM
1:30 PM
4:30 PM
7:30 PM
10:30 PM
1:30 AM
4:30 AM
7:30 AM
10:30 AM
Standard Time (5/11/06 to 5/12/06)
MSL

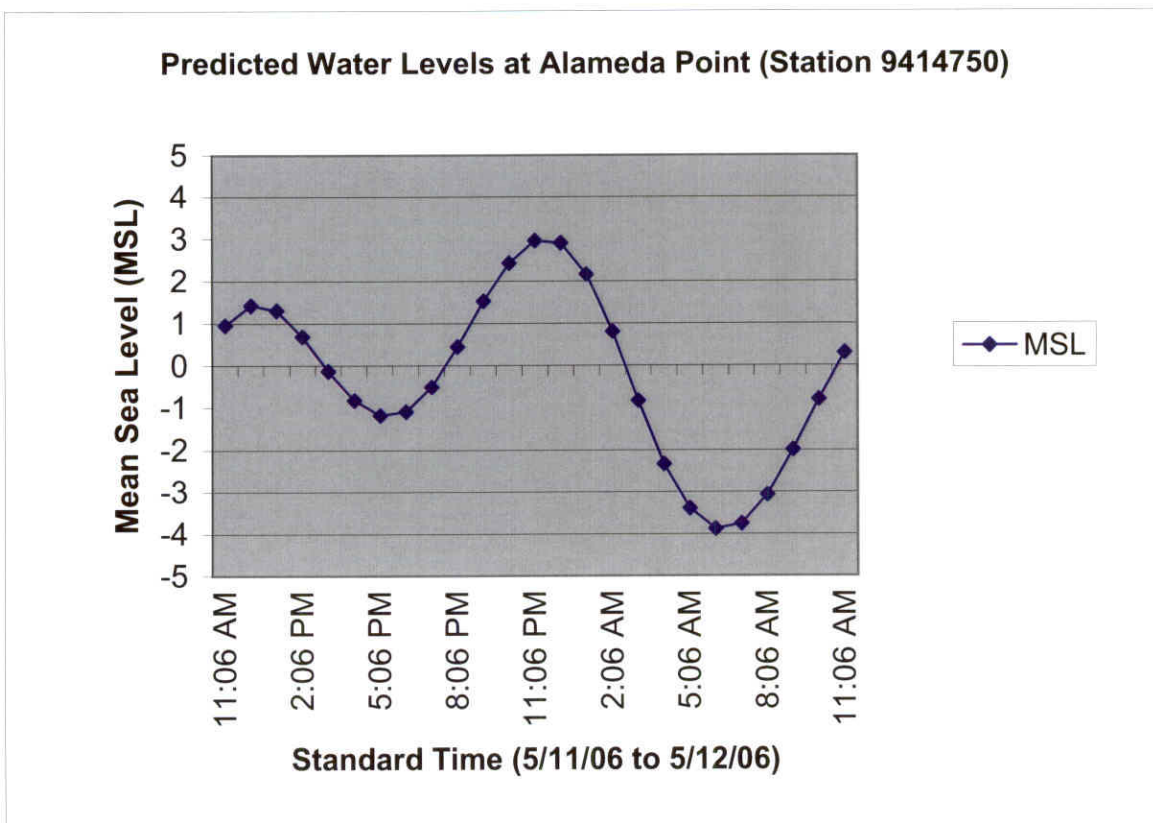

Alameda Tidal Study (IR 16) - Well MW16-06
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10:39 AM
1:39 PM
4:39 PM
7:39 PM
10:39 PM
1:39 AM
4:39 AM
7:39 AM
10:39 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean

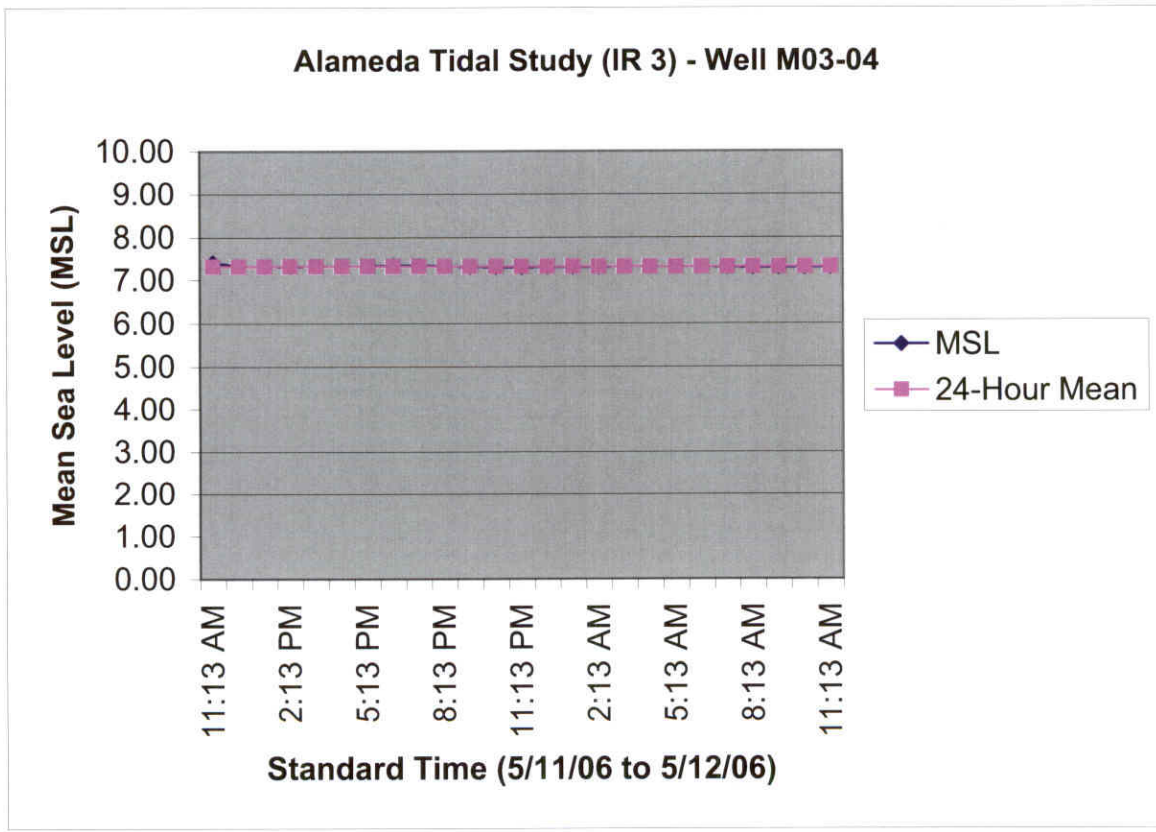

Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
10:42 AM
1:42 PM
4:42 PM
7:42 PM
10:42 PM
1:42 AM
4:42 AM
7:42 AM
10:42 AM
Standard Time (5/11/06 to 5/12/06)
MSL

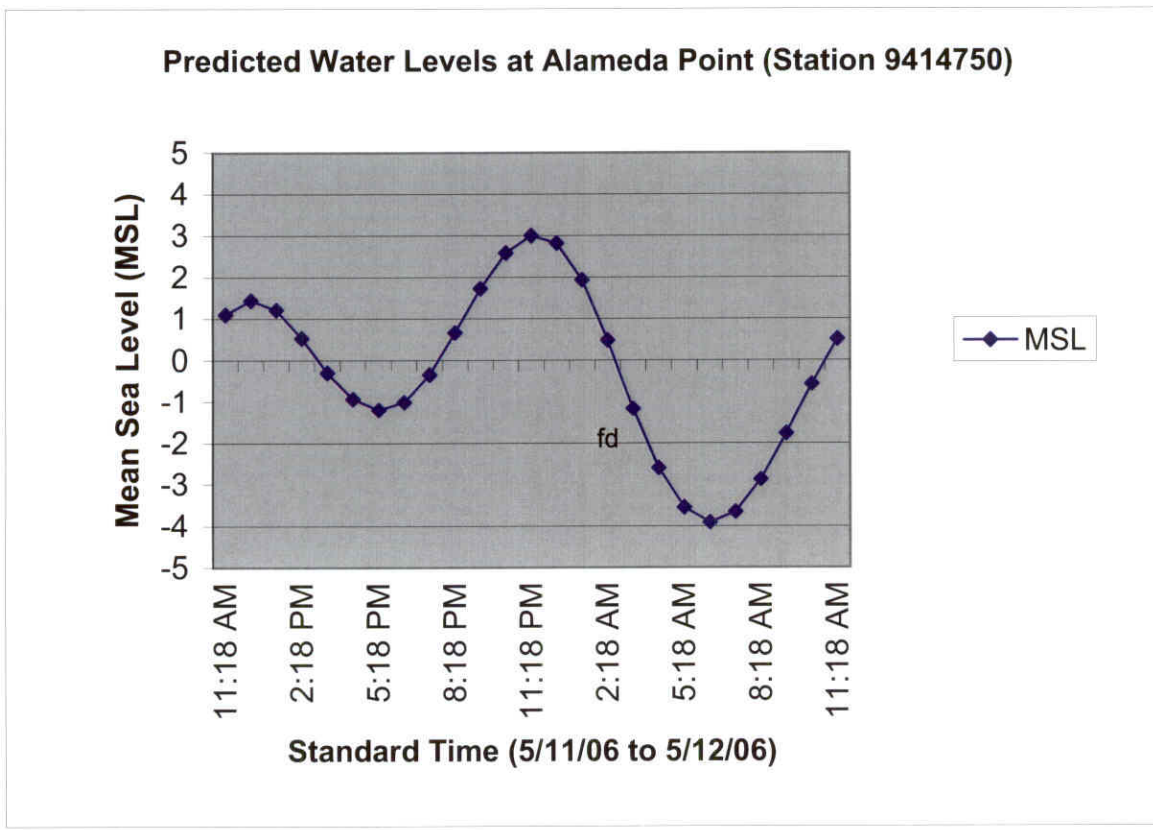

Alameda Tidal Study (IR 16) - Well 608MJ-MW2
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10:49 AM
1:49 PM
4:49 PM
7:49 PM
10:49 PM
1:49 AM
4:49 AM
7:49 AM
10:49 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
10:54 AM
1:54 PM
4:54 PM
7:54 PM
10:54 PM
1:54 AM
4:54 AM
7:54 AM
10:54 AM
Standard Time (5/11/06 to 5/12/06)
MSL


Alameda Tidal Study (IR 3) - Well 372-MW1
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
11:02 AM
2:02 PM
5:02 PM
8:02 PM
11:02 PM
2:02 AM
5:02 AM
8:02 AM
11:02 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
11:06 AM
2:06 PM
5:06 PM
8:06 PM
11:06 PM
2:06 AM
5:06 AM
8:06 AM
11:06 AM
Standard Time (5/11/06 to 5/12/06)
MSL


Alameda Tidal Study (IR 3) - Well M03-04
Mean Sea Level (MSL)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
11:13 AM
2:13 PM
5:13 PM
8:13 PM
11:13 PM
2:13 AM
5:13 AM
8:13 AM
11:13 AM
Standard Time (5/11/06 to 5/12/06)
MSL
24-Hour Mean


Predicted Water Levels at Alameda Point (Station 9414750)
Mean Sea Level (MSL)
5
4
3
2
1
0
-1
-2
-3
-4
-5
fd
11:18 AM
2:18 PM
5:18 PM
8:18 PM
11:18 PM
2:18 AM
5:18 AM
8:18 AM
11:18 AM
Standard Time (5/11/06 to 5/12/06)
MSL

APPENDIX B

ANALYTICAL DATA FOR SPRING 2006 WITH DATA QUALIFIERS AND REASON CODE DEFINITIONS, LISTED BY IR SITE

N00236.002965
ALAMEDA POINT
SSIC NO. 5090.3

APPENDIX B – ANALYTICAL DATA FOR SPRING 2006 WITH DATA QUALIFIERS AND REASON CODE DEFINITIONS, LISTED BY IR SITE

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DOCUMENT WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

N00236.002965
ALAMEDA POINT
SSIC NO. 5090.3

APPENDIX C – DATA QUALITY SUMMARY REPORT, SUMMER 2005 AND SPRING 2006

FINAL
SPRING 2006
ALAMEDA BASEWIDE
ANNUAL GROUNDWATER MONITORING REPORT

DATED 01 FEBRUARY 2007

DATA QUALITY SUMMARY REPORT SPRING 2006

ALAMEDA POINT
ALAMEDA, CALIFORNIA

DRAFT

Prepared For:

U.S. Department of the Navy
Base Realignment and Closure
Program Management Office West
1230 Columbia Street, Suite 1100
San Diego, California 92101

Prepared By:

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598

July 2006

ITSI Innovative Technical Solutions, Inc.

DATA QUALITY SUMMARY REPORT
SPRING 2006

ALAMEDA POINT
ALAMEDA, CALIFORNIA

DRAFT

Contract Number N68711-02-D-8213
Contract Task Order 0016

Prepared by: Paul V. West Date: 10/23/2006
Paul West
ITSI Senior Chemist

Reviewed by: Arvind Acharya Date: 10/23/2006
Arvind Acharya, R.G.
ITSI Project Manager

Approved by: Jeffrey Hess Date: 10/23/06
Jeffrey Hess, R.G.
ITSI Program Manager

ITSI Innovative Technical Solutions, Inc.

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A Final Laboratory Data Reports for Spring 2006 (unvalidated)

B Data Validation Reports, Summer 2005 and Spring 2006

C Field Duplicate Results Above Reporting Limits

ACRONYMS AND ABBREVIATIONS

ASTM	American Society for Testing and Materials
ATL	Air Toxics, Ltd.
C&T	Curtis and Tompkins Laboratory
°C	degrees Celsius
EPA	United States Environmental Protection Agency
GEL	General Engineering Laboratories, LLC
ICP	inductively coupled plasma
IR	Installation Restoration
ITSI	Innovative Technical Solutions, Inc.
LCS	Laboratory Control Sample
LDC	Laboratory Data Consultants, Inc.
µg/L	micrograms per liter
mg/L	milligrams per liter
MDL	method detection limit
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
NEDD	Navy Environmental Data Deliverable
NELAP	National Environmental Laboratory Accreditation Program
NFESC	Naval Facilites Engineering Services Center
pCi/L	picocuries per liter
PDF	portable document format
QC	quality control
RPD	relative percent difference
RL	reporting limit
SDG	sample deliver group
Shaw	Shaw Environmental Inc.
TDS	total dissolved solids
TPH	total petroleum hydrocarbons
VOC	volatile organic compounds

1.0 ANALYTICAL PROGRAM

Complete summaries of analytical results are presented in this appendix for the Groundwater Monitoring Program at Alameda Point (formerly Naval Air Station Alameda) in Alameda, California.

Groundwater sample analyses were conducted in accordance with the requirements specified in the following guidance documents:

- *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods* (U.S. Environmental Protection Agency [EPA], 1996)
- *Methods for Chemical Analysis of Water and Wastes* (EPA, 1983)
- *Standard Operating Procedures R. S. Kerr Research Laboratory of the EPA* (EPA, 1994a)
- *Compendium of Methods for Determination of Toxic Organic Compounds in Ambient Air* (EPA, 1999a)
- *Annual Book of ASTM (American Society for Testing and Materials) International Standards* (ASTM, 1997)
- *Final Sampling and Analysis Plan, Basewide Groundwater Monitoring Program, Alameda Point, Alameda* (Shaw Environmental, Inc. (Shaw), 2004)
- *Sampling and Analysis Plan Addendum, (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, Draft of March 15, 2004* (Shaw, 2004)
- *Addendum 02 to the Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, October 2004* (Innovative Technical Solutions, Incorporated (ITSI), 2004)

Curtis and Tompkins, Incorporated (C&T), of Berkeley, California was selected as the primary analytical laboratory. C&T subcontracted the radiological testing to General Engineering Laboratories, LLC (GEL), of Charleston, South Carolina, and the air analysis to Air Toxics, Ltd. (ATL), located in Folsom, California. C&T, GEL and ATL have successfully completed the

Naval Facilities Engineering Service Center's (NFESC) Laboratory Evaluation Program. In addition, C&T, GEL and ATL participate in and are certified under the National Environmental Laboratory Accreditation Program (NELAP). ITSI conducted a verification audit of C&T in October 2004. The sample login and receipt area of C&T was also audited during the Spring 2006 sampling event. These audits did not identify any significant data quality issues.

All hardcopy and electronic results from GEL and ATL were forwarded to C&T. Hardcopy reports were scanned and included with the appropriate C&T report. All original, unvalidated C&T reports were submitted as Portable Document Format (PDF) files and are included as Appendix A for reference. Electronic results were entered into C&T's computer data system and merged with the appropriate laboratory electronic data deliverable for that specific sample delivery group (SDG).

Synectics, Inc. in Sacramento, California provided three services for ITSI regarding data quality. First, ITSI field personnel entered work order information to Synectics' database. Upon completion, the C&T laboratory electronic data deliverables were uploaded directly by C&T personnel to Synectics' database. A consistency check was performed between the laboratory data and the requested work order information. Any discrepancies (e.g., non-matching sample identifiers) were resolved prior to approval of the work order or SDG. Second, Synectics' performed an automated data review on the results, that was supplemented with minimal manual review to meet the requirements of an EPA Level III data validation review. Third, Synectics' produced an electronic deliverable in the Navy Environmental Data Deliverable (NEDD) format for the Summer 2005 and Spring 2006 sampling events.

Finally, Laboratory Data Consultants, Inc. (LDC) of Carlsbad, California performed independent EPA Level IV data validation on 20 percent of the results. LDC was given access (with appropriate controls) to Synectics' database and applied qualifiers directly to the appropriate results. Analytical data were reviewed and validated for all test method results according to the procedures specified in the following documents, as applicable:

- *Final Sampling and Analysis Plan, Basewide Groundwater Monitoring Program, Alameda Point, Alameda* (Shaw Environmental, Inc. (Shaw), 2004)
- *Sampling and Analysis Plan Addendum, (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, Draft of March 15, 2004* (Shaw, 2004)

- *Addendum 02 to the Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, October 2004 (Innovative Technical Solutions, Incorporated* (ITSI), 2004)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* (EPA, 1999)
- *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, (EPA, 2002)
- *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods* (EPA, 1996)

The data qualification flag definitions and reason codes are presented in Appendix A. The following analytical quality control (QC) elements were evaluated and used as the basis for qualifying data:

- Holding time and temperature compliance
- Initial calibration verification
- Continuing calibration verification
- Method blank contamination
- Field blank contamination
- Laboratory control sample (LCS) accuracy and precision
- Matrix spike (MS) accuracy and precision
- Internal standard recovery
- Interference check sample recovery (EPA Method 6010B only)
- Inductively Coupled Plasma (ICP) Serial Dilution (EPA Method 6010B)
- Surrogate recovery
- Sample duplicate precision
- Instrument tuning and system performance (Level IV)
- Analyte identification and quantitation (Level IV)

1.1 QUALIFIED RESULTS

The following qualifiers have been applied as appropriate to the data. Between the Fall/Winter 2004 sampling event and the Spring 2005 sampling event, the Navy directed ITSI to change the format of the final electronic deliverable from the Navy Electronic Data Transfer Standard

(NEDTS) version 2.01 to the Navy Electronic Data Deliverable (NEDD). These results are submitted in the NEDD version 1.3 format. The final electronic data deliverable and data tables contain the following data qualifiers as appropriate:

- *J qualifier* denotes the analyte was positively identified, the quantitation is an estimation. The analyte was positively identified but the associated numerical value is an estimated value above the method detection limit (MDL) and below the reporting limit (R.
- *U qualifier* denotes the analyte was analyzed for, but not detected. The associated numerical value is at or below the RL.
- *UJ qualifier* denotes the associated quantification limit may be inaccurate or imprecise
- *R qualifier* denotes the data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria

A qualifier may be applied to a result for more than one reason. For example, an analysis which exceeded the allowed holding time and qualified as estimated, 'J', may also be qualified due to an identified problem with the instrument calibration. In the discussion below, only the initial reason for the qualification will be discussed.

Within the NEDTS v. 2.01 and NEDD v. 1.3 database structures, the final validation code is listed in the VALIDATION CODE field. The QUALIFIER field contains qualifiers that may have been applied by the laboratory. Many of these qualifiers have specific definitions to a particular laboratory, and they are mapped to an appropriate VALIDATION CODE allowed value (U, J, UJ and R).

Within the NEDD database structure, the final validation code is listed in the FINAL QUALIFIER field. The LAB QUALIFIER field contains qualifiers that may have been applied by the laboratory. The VALIDATOR QUALIFIER contains the qualifiers that were applied by the data validators. The appropriate qualifier from the laboratory or the data validator is mapped to one of the allowed values (U, J, UJ and R) and entered in the FINAL QUALIFIER field.

The following sections discuss the quality of the data and reasons for qualification. Significant data quality issues, which resulted in data rejection are discussed in Section 2.0.

1.2 ESTIMATED LOW CONCENTRATIONS

C&T and its subcontract laboratories were tasked to report detected analyte concentrations to the MDL and not detected concentrations to the RL. Detected concentrations between the RL and the MDL are qualified as estimated, 'J' because of the increased quantitative uncertainty in the

result as the concentration of the analyte approaches the MDL. A total of 2690 results were qualified as estimated due to concentrations measured between the MDL and the RL.

Qualification of results as estimated due to low concentrations of analytes is expected due to the sensitivity of the analytical methodology used and the low concentrations of many analytes. Qualification for low concentrations is not due to method performance, or analytical program issues. Results remain usable with qualification, and so data usability is not affected.

1.3 SAMPLE SHIPMENT AND STORAGE

As samples were collected in the field, preservation by cooling was immediately initiated. C&T arranged for a courier service during each day of sampling. Samples were rapidly shipped directly to C&T. In certain cases, insufficient time had elapsed for thermal equilibrium to be reached and the samples to have been cooled to the specified temperature range of 2 to 6 degrees Celsius (°C). In these cases, samples are still considered to have been shipped under proper storage conditions. No other samples were received at temperatures outside the specified temperature range.

Upon receipt by the laboratory, samples were immediately entered into the laboratory's data system, and were stored under refrigeration. No results were qualified due to improper sample shipment and storage for this event.

1.4 HOLDING TIME

Holding times were exceeded for analysis of 7 samples for total dissolved solids (TDS) and 1 sample for 1,4-dioxane (8270C-SIM). A total of 8 results were qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ'.

Holding times were only minimally exceeded. Samples remained at the laboratory under proper storage in temperature-monitored storage refrigerators. Results remain usable with qualification; therefore data usability is not affected.

1.5 LABORATORY AND FIELD BLANK CONTAMINATION

Low levels of detected analytes due to ambient contamination were detected in some laboratory and field blanks. The sensitivity of modern analytical methodology increases the likelihood of detection of low-level contamination. Sources of low-level contamination are difficult to identify, but common sources include dust, volatile organic compounds gradually released from

manufactured plastics, and building materials. A total of 598 results were qualified as not detected, 'U', or not detected at an estimated detection limit, 'UJ'.

The levels of detected analytes are not sufficiently high for a result to be rejected. The identified low-level contamination is not sufficient to affect the data usability.

1.6 CALIBRATION

Instrument calibration is performed in accordance with the specified EPA methodology. The acceptance of the calibration is determined by the measurement of a method-specific statistical parameter. Because of the natural variability during the analytical process, an instrument may be later determined to have a calibration that is outside the acceptance limit. The accuracy of a result associated with a calibration that is later determined to be outside the acceptance limit will have more uncertainty that result. Depending upon the magnitude of the uncertainty, a result may be qualified. A total of 165 results were qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ', due to identified problems with the calibration.

On a statistical basis, given the number and types of analytes that are measured in this program, some of the calibrations will occur outside the method acceptance parameters. The number of results qualified is consistent with what is expected, and these results may still be used with qualification. Data usability is not significantly affected.

1.7 SURROGATES AND INTERNAL STANDARDS

Surrogate compounds and internal standards are control compounds used to monitor the analytical process as specified in EPA methodology. The evaluation of the surrogate recovery and internal standard response may indicate that the accuracy of the result is not within the acceptable method-specific parameters. Depending upon the magnitude of the uncertainty, a result may be qualified. A total of 67 results were qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ', due to identified problems with the calibration.

The number of results qualified is consistent with what is expected, and these results may still be used with qualification. No results were rejected due to surrogate recovery or internal standard recovery. Data usability is not significantly affected.

1.8 SERIAL DILUTION

For metals analysis, a serial dilution test is used to determine if interferences are present during the analysis. This test is specified in EPA methodology. The measurement of a metal in an

undiluted sample is compared to the measurement of the same metal in a diluted sample (and multiplied by the proper dilution factor). Depending upon the magnitude of the uncertainty, a result may be qualified. A serial dilution test may only be evaluated when a measurable amount of analyte is present. A total of 47 results were qualified as estimated, 'J'.

The number of results qualified is consistent with what is expected, and these results may still be used with qualification. No results were rejected, and data usability is not significantly affected.

1.9 LABORATORY CONTROL SAMPLES

Laboratory control samples are synthetic samples prepared and analyzed in the same procedure as normal field samples. Laboratory control samples are used to further monitor the analytical process.

On a statistical basis, given the number and types of analytes that are measured in this program, some of the measurements of the laboratory control samples will occur outside acceptance parameters. A total of 2 results have been qualified as estimated, 'J', or not detected at an estimated detection limit, 'UJ', due to the laboratory control sample results. The number of results qualified is significantly lower than what is typically expected, and indicates that the laboratory was attentive to this quality control parameter. No results were rejected due to laboratory control sample results, therefore data usability is not significantly affected.

1.10 MATRIX SPIKE SAMPLES

One in 20 samples were identified for matrix spike analysis, representing approximately a 5 percent frequency. Matrix spike samples are field samples to which analytes of interest have been added to monitor the analytical process. A total of 191 results have been qualified as estimated, 'J', not detected at an estimated detection limit, 'UJ', or not detected, 'U', due to the matrix spike results. The number of results qualified is consistent with what is expected, and these results may still be used with qualification. No results were rejected due to matrix spike results, therefore data usability is not significantly affected.

1.11 DUPLICATE SAMPLES

The laboratory as part of its internal quality control checks also analyzes and reports laboratory replicates. A total of 42 results have been qualified as estimated, 'J', not detected at an estimated detection limit, 'UJ', or not detected, 'U', due to the duplicate sample results. The number of results qualified is consistent with what is expected, and these results may still be

used with qualification. No results were rejected due to duplicate results, therefore data usability is not significantly affected.

2.0 REJECTED RESULTS

The data review and validation process did not identify any rejected results.

3.0 FIELD DUPLICATES

One in 10 samples were collected as a field duplicate, and were analyzed for the same parameters as the normal sample. A total of 2634 individual field duplicate results were measured. Of these results, 207 analytes were detected above the reporting limit in both the normal sample and the field duplicate. Field duplicates results were compared only when an analyte is detected above the reporting limit in both samples. The Sampling and Analysis Plan specifies that field duplicate results are in agreement when the relative percent difference (RPD) between the field duplicate result and the normal sample result is less than 50 when the result exceeds five times the reporting limit. 17 results are considered to be in disagreement, representing 8.2 percent of the total field duplicate results with analyte concentrations sufficient for comparison.

Sample M11-05-A5109 and its field duplicate M11-05-A5110 had results of 1600 and 920 milligrams per liter (mg/L) of chloride; 210 and 120 mg/L of sulfate; and 14 and 8 micrograms per liter (µg/L) of methane. The RPD of these pairs are 53, 54 and 54, respectively. The RPD value is just slightly outside the performance limit and is likely due to natural statistical variability. Data usability is not affected for this parameter.

Sample D12-01-A5129 and its field duplicate D12-01-A5130 had results of 16 and 6.8 µg/L of silver with a RPD of 80. Silver is sensitive to ambient chloride concentrations. At low to moderate concentrations of chloride, silver will form the insoluble salt silver chloride (AgCl). At higher concentrations of chloride, silver will remain dissolved by forming the complex anion silver dichloride ($AgCl_2^-$). The corresponding values of chloride in these sample is approximately 22000 mg/L (2.2 %), indicating that the samples contained high concentrations of chloride. The RPD value indicates that the measurement of silver in the presence of high concentrations of chloride ion have higher variability. However, silver concentrations will remain low under these conditions. Data usability is not affected for this parameter.

Sample M08-03-A5159 and its field duplicate M0803-A5160 had results of 270 and 140 mg/L of both bicarbonate and total alkalinity. Samples were collected on 05/04/2006, and analyzed on 05/18/2006, within, but near the end of the 14 day holding time. The increase in the RPD may

indicate that one of the sample bottles was not sealed against atmospheric exchanges. Atmospheric exchanges may result with carbon dioxide or low level acid (from separate sample preservatives) neutralization of the acid neutralizing capacity of the sample, and therefore would affect the alkalinity measurements. Data usability is minimally impacted for this parameter.

Sample 15-MW2-A5209 and its field duplicate of 15-MW2-A-5210 had results of 1.5 (estimated) and 88 µg/L of zinc. No assignable cause has been identified for these results. Zinc is a common, ubiquitous component of many everyday materials, including but not limited to paint, cosmetics, and powder on disposable gloves. Zinc results for this event are within the range as determined from previous sampling events, and no outliers are present. The data is therefore only minimally affected. The quality of zinc results will continue to be monitored.

Sample D11-01-A5089 and its field duplicate of D11-01-A5090 had results of 5 and 9.6 µg/L of selenium, with a corresponding RPD of 63. The RPD value is just slightly outside the performance limit of 50 and is likely due to natural statistical variability. Data usability is not affected for this parameter.

Sample 372-MW1-A5079 and its field duplicate of 372-MW1-A5080 had results of 370 and 140 mg/L of total dissolved solids (TDS), with a corresponding RPD of 114. TDS is a non-specific parameter. The RPD value is outside the performance limit of 50 and is likely due to natural statistical variability. Data usability is not affected for this parameter.

Sample M022-E-A5059 and its field duplicate of M022-E-A5060 had estimated results of 3.6 and measured results of 6.1 µg/L of arsenic, with a corresponding RPD of 51. The RPD value is just outside the performance limit of 50 and is likely due to natural statistical variability. Data usability is not affected for this parameter.

Sample M022-E-A5059 and its field duplicate of M022-E-A5060 had results of 27.8 and 9.33 picocuries per liter (pCi/L) of radium-228. Sample M028-C-A5019 and its field duplicate of M028-C-A5020 had results of 106 and 8.24 picocuries per liter (pCi/L) of gross beta activity, and 0.571 and 1.29 pCi/L of radium activity. Sample M013-C-A5039 and its field duplicate of M013-C-A5040 had results of 196 and 411 picocuries per liter (pCi/L) of gross beta activity, and 0.461 and 0.273 pCi/L of Uranium-235/Uranium-236 activity. Sample M006-A-A5009 and

its field duplicate of M006-A-A5010 had estimated results of 11.8 and 6.9 picocuries per liter (pCi/L) of gross beta activity, and 0.227 and 0.431 pCi/L of Uranium-233/Uranium-234 activity. The concentration of several metals indicate that moderate to high quantities of salt are dissolved in these particular samples. For example, concentration of sodium in sample M022-E-A5059 is near 8700 parts per million (mg/L), or 0.8 percent by weight. Methods used for radioisotopes are based upon drinking water analytical methods (e.g., 900 series). The presence of a significant salt concentration leaves a thicker residue upon evaporation, which directly affects the analysis of radioisotopes. The results for the gross beta activity have been estimated, and the reproducibility of the results for radium, while not ideal, are expected due to the applicability of a drinking water method to a water with moderately high percent salt. Data usability is only minimally impacted.

Results from all remaining field duplicates were in agreement. A comparison of field duplicates is included as Attachment C.

4.0 LEAD BY EPA METHOD 6010B

During the review of data from previous sampling events, elevated levels of lead were identified in three analytical batches from the laboratory. These lead results were generated using EPA Method 6010B. The lead results had been validated, and all required quality control parameters were within the performance specifications required by EPA Method 6010B.

However, lead had not been detected previously in these sampling locations. Upon closer inspection, it appears that the lead concentrations were elevated due to a matrix interference. The laboratory agreed to reanalyze these samples using EPA Method 6020. The lead results have been updated in the report and in the electronic data deliverable.

5.0 CONCLUSIONS AND DATA USABILITY

The analytical methods used for the Groundwater Monitoring Program were selected to provide quality data sufficient to meet data quality objectives, including comparability to historical data, continuity of the Groundwater Monitoring Program and the project sensitivity requirements. The use of Method 6020 for lead (Pb) is recommended for future sampling events due to identified matrix interferences.

5.1 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES

Field QC samples for this project included field duplicates, trip blanks, temperature blanks, and matrix spike/ matrix spike duplicate (MS/MSD) samples. Field duplicate samples were collected in the field at a frequency of 10 percent for each of the thirteen IR sites, and analyzed for the same analytes as their corresponding original samples. Trip blanks were placed in coolers used for wells requiring VOC analysis and analyzed for VOCs as well. Temperature blanks were placed in coolers for cooler temperature checks. MS/MSD samples were collected at a frequency of approximately one for every 20 groundwater field samples.

5.2 COMPLETENESS SUMMARY

Of a total of 27557 results (including normal samples and field duplicates), 2766 are qualified as estimated or not detected at an estimated reporting limit. No results were rejected. Estimated results can still be used with qualification. The total completeness is therefore 100 percent. Field duplicate reproducibility exceeds 91.8 percent for all detected results above the reporting limit.

5.3 FINAL CONCLUSION

The data generated in support of the Spring 2006 Alameda Groundwater monitoring project meet the project objectives.

6.0 REFERENCES

Shaw Environmental, 2004a, *Final Sampling and Analysis Plan, Basewide Groundwater Monitoring Program, Alameda Point, Alameda*

Shaw Environmental, 2004b, *Sampling and Analysis Plan Addendum, (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California, Draft of March 15, 2004*

Innovative Technical Solutions, Inc.(ITSI), 2004, *Addendum 02 to the Sampling and Analysis Plan (Field Sampling Plan/Quality Assurance Project Plan), Basewide Groundwater Monitoring, Alameda Point, Alameda, California*, October

U. S. Environmental Protection Agency (EPA), 1999, *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*

EPA, 2002, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*

EPA, 1996, *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods*

ATTACHMENTS

ATTACHMENT A

FINAL LABORATORY DATA REPORTS FOR SPRING 2006

(UNVALIDATED ORIGINALS)

N00236.002965
ALAMEDA POINT
SSIC NO. 5090.3

ATTACHMENT A – FINAL LABORATORY DATA REPORTS FOR SPRING 2006 (UNVALIDATED)

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DATA WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
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1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

ATTACHMENT B

DATA VALIDATION REPORTS

SPRING 2006

N00236.002965
ALAMEDA POINT
SSIC NO. 5090.3

ATTACHMENT B – DATA VALIDATION REPORTS, SUMMER 2005 AND SPRING 2006

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DOCUMENT WILL NOT BE IMAGED.

TO VIEW THE DATA, CONTACT:

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ATTACHMENT C

FIELD DUPLICATE RESULTS ABOVE REPORTING LIMITS

N00236.002965
ALAMEDA POINT
SSIC NO. 5090.3

ATTACHMENT C – FIELD DUPLICATE RESULTS ABOVE REPORTING LIMITS

THIS RECORD CONTAINS LARGE VOLUMES OF DATA AND IS NOT REQUIRED TO BE PHYSICALLY LOCATED WITH THE ADMINISTRATIVE RECORD DOCUMENT.

DUE TO EXTENSIVE VOLUME, THIS DOCUMENT WILL NOT BE IMAGED.

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APPENDIX D

SAMPLE COLLECTION FIELD FORMS AND CHAIN-OF-CUSTODY DOCUMENTATION, SPRING 2006

40 Hour Hazwoper Certifications

For: MacTech Technicians

Shawn Baker

Compliance SolutionsOccupational Trainers, Inc.
Certificate of Completion

Student Name: Shawn Baker

Company: Environmental Resolutions Inc

I Certify that the above named student has completed the

40 Hour HAZWOPER

29 CFR 1910.120(e)

Date of Issue: 11/4/2005

By: [redacted] President

99048

Register online for refresher training get a 5% discount. Promotion code: ru11wc14ref

This offer is only valid for the student listed on the front of this card. Offer ONLY valid 10/1/2006-11/30/06

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10515 E 40th Ave, Suite 118, Denver Colorado 80239 800-711-2706

Student Affiliation:
MACTEC Engineering & Consulting, Inc.
99175691

Certificate of Completion

This is to certify that

Anthony Drolet

has successfully completed the classroom requirements for

40 Hour HAZWOPER

29 CFR 1910.120(e)

Presented

Tuesday, May 31, 2005

Compliance Solutions Occupational Trainers, Inc.

Certificate Number: *69152*

Neval Gupta
Vice President

Jeffrey Kline
President/CEO

Water Level Meter #: 29619

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials: CS / AD

Sampling Team: 1 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 1 & 32 Wells							
** M027-C	4.17.06	100' from shoreline to 0922	000 / 000 / 000	4.50	Top of Casing / Coupling	Marked / Unmarked North	to be included in tidal study
WL SN# 35919 M027-E**	4.17.06	0918	000 / 000 / 000	3.60	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M028-A**	4.17.06	0907	000 / 000 / 000	4.38	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 ** M028-C	4.17.06	30' from Shoreline 0909	000 / 000 / 000	7.23	Top of Casing / Coupling	Marked / Unmarked North	to be included in tidal study
WL SN# 35919 M028-E**	4.17.06	0910	000 / 000 / 000	4.29	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M029-A**	4.17.06	0855	000 / 000 / 000	3.75	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M029-E**	4.17.06	0853	000 / 052 / 004	2.60	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M030-A**	4.17.06	1303	000 / 000 / 000	1.74	Top of Casing / Coupling	Marked / Unmarked North	
** M030-C	4.11.06	0947	0 / 0 / 0	6.13'	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M030-E**	4.17.06	1000	000 / 000 / 000	1.75	Top of Casing / Coupling	Marked / Unmarked North	

Water Level Meter #: 29619

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials: CS / AD

Sampling Team: 1 · 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 1 & 32 Wells							
M006-A	4.11.06	0900	0 / 0 / 11.0	0.76'	Top of Casing / Coupling	Marked / Unmarked North	no bolts on cover
M007-A	under water		/ /		Top of Casing / Coupling	Marked / Unmarked North	under water
M008-A			/ /		~~Top of Casing / Coupling~~	~~Marked / Unmarked North~~	Have No Map Location For Well (Location Unknown)
WL SN# 35919 M025-A**	4.17.06	0944	000 / 000 / 000	3.84	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 ★ M025-C	4.17.06	0947	000 / 000 / 000	3.48	Top of Casing / Coupling	Marked / Unmarked North	to be included in tidal study 15' from shoreline
WL SN# 35919 M025-E**	4.17.06	0946	000 / 000 / 000	5.30	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M026-A**	4.17.06	0930	000 / 000 / 000	5.32	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M026-E**	4.17.06	0933	000 / 000 / 000	4.99	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M027-A**	4.17.06	0920	000 / 000 / 000	3.43	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 ★★ M027-B	4.17.06	0915	000 / 000 / 000	5.18	Top of Casing / Coupling	Marked / Unmarked North	to be included in tidal study 100' from shoreline

** = > 8% Tidal Efficiency or 200 Feet of Shoreline

Water Level Meter #: 29619

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials : CS / AO

Sampling Team: 1 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 1 & 32 Wells							
WL SN# 35919 M001-A**	4.17.06	0845	000 / 000 / 000	2.59	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 ** M001-B	4.17.06	0839	100' from Shoreline 000 / 000 / 000	7.62	Top of Casing / Coupling	Marked / Unmarked North	to be included in Fish Study 100' from Shoreline
WL SN# 35919 M001-E**	4.17.06	0831	000 / 100 over / 000	3.95	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M002-A**	4.17.06	0828	000 / 000 / 000	5.93	Top of Casing / Coupling	Marked / Unmarked North	
WL SN# 35919 M002-E**	4.17.06	0824	000 / 000 / 000	10.02	Top of Casing / Coupling	Marked / Unmarked North	
M003-A	4.11.06	1120	0 / 0 / 0	3.24	Top of Casing / Coupling	Marked / Unmarked North	
M003-B	4.11.06	0935	0 / 0 / 0	6.95'	Top of Casing / Coupling	Marked / Unmarked North CS	
WL SN# 35919 M003-E**	4.17.06	0820	00 / 000 / 10.04	3.36	Top of Casing / Coupling	Marked / Unmarked North	
M004-A	4.11.06	0920	0 / 0 / 0	2.36'	Top of Casing / Coupling	Marked / Unmarked North	
M005-A	4.11.06	0912	0 / 0 / 1.3	1.88'	Top of Casing / Coupling	Marked / Unmarked North	

Water Level Meter #: IT30840 ~~29619 660~~

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials : BSD / CS

Sampling Team: 1 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 2 Wells							
M014-A	4·12·06	0835	1000/00.0	Top of Casing	Top of Casing / Coupling	Marked / Unmarked North	pulled cap water Rose above Casing
M014-B	4·12·06	0840	1000/00.0	2.56	Top of Casing / Coupling	Marked / Unmarked North	
M015-A**	4/17/06	1026	OL/0.0/20.9	3.85	Top of Casing / Coupling	Marked / Unmarked North	
M016-A**	4·17·06	0816	0.0/0.0/20.8	8.04	Top of Casing / Coupling	Marked / Unmarked North	
M016-B	4·12·06	1109	1000/00.0	6.66	Top of Casing / Coupling	Marked / Unmarked North	
M016-E**	4/17/06	0810	0.0/0.0/20.9	8.34	Top of Casing / Coupling	Marked / Unmarked North	
M017-A**	4/17/06	0820	0.0/0.0/NA	9.31	Top of Casing / Coupling	Marked / Unmarked North	
M018-A**	4/17/06	0840	0.0/0.0/NA	8.05	Top of Casing / Coupling	Marked / Unmarked North	
M018-E**	4/17/06	0845	0.0/0.0/NA	9.18	Top of Casing / Coupling	Marked / Unmarked North	
M019-A**	4/17/06	0854	0.0/0.0/NA	8.51	Top of Casing / Coupling	Marked / Unmarked North	

** = > 8% Tidal Efficiency or 200 Feet of Shoreline

Water Level Meter #: IT30840

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials: RSD / CS

Sampling Team: 1 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 2 Wells							
M019-E**	4/17/06	0900	0.0 / 0.0 / NA	10.41	Top of Casing / Coupling	Marked / Unmarked North	
M020-A**	4/17/06	0908	0.0 / 0.0 / 20.9	5.62	(Top of Casing) / Coupling	(Marked) / Unmarked North	
M020-B	4.12.06	1008	0 / 1000 / 1000	5.41	Top of Casing / Coupling	Marked / (Unmarked North)	4/17 6.15 0905
M020-E**	4/17/06	0920	0.0 / 0.0 / NA	9.44	(Top of Casing) / Coupling	(Marked) / Unmarked North	
M021-A**	4/17/06	0925	0.0 / 0.0 / NA	3.73	(Top of Casing) / Coupling	(Marked) / Unmarked North	
M021-C	4.12.06	1005	0 / OVER 100 / 1000	2.97	(Top of Casing) / Coupling	Marked / Unmarked North	4/17 0927 3.65
M021-E**	4/17/06	0923	0.0 / 0.0 / NA	7.51	(Top of Casing) / Coupling	(Marked) / Unmarked North	casing broken
M022-A**	4/17/06	0927	0.0 / 0.0 / 20.9	6.72	(Top of Casing) / Coupling	(Marked) / Unmarked North	
M022-E**	4/17/06	0945	0.0 / 0.0 /	5.70	(Top of Casing) / Coupling	(Marked) / Unmarked North	
M023-A**	4/17/06	1000	0.0 / 0.0 / NA	3.96	(Top of Casing) / Coupling	(Marked) / Unmarked North	

Water Level Meter #: IT30840 ~~27617 1160~~

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials : ASD / CS

Sampling Team: 1 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 2 Wells							
M023-B	4.12.06	~~0933~~	1025 / 000	3.47	Top of Casing / Coupling	Marked / Unmarked North	
M023-C	4.12.06	0935	1000/000	2.72	(Top of Casing / Coupling)	(Marked / Unmarked North) 4/17/06	3.51 (0954)
M023-E**	4/17/06	1000	0.0/0.0/20.9	6.30	~~Top of Casing~~ / Coupling	(Marked / Unmarked North)	
M024-A**	4/17/06	1011	0.0 / 0.0 / NA	4.11	~~Top of Casing~~ / Coupling	(Marked) / Unmarked North	
M024-E**	4/17/06	1015	0.0/0.0/20.9	6.04	Top of Casing / Coupling	Marked / Unmarked North	
M036-A	4.12.06	1020	1075 / 000	0.77	Top of Casing / Coupling	Marked / Unmarked North	Uncaped Well, water Rose above Well Casing than Droped & Stabalized
M036-B	4.12.06 ~~4/12/06~~	1027 ~~1023~~	overrun ~~1014~~ / 000 ~~000~~	2.52 ~~1.75~~	Top of Casing / Coupling	Marked / Unmarked North	
M036-E	4.12.06	1023	1014 / 000	1.75	Top of Casing / Coupling	Marked / Unmarked North	
M037-A	4.12.06	1045	00.0 over ~~100~~ / 00.0	3.30	Top of Casing / Coupling	Marked / Unmarked North	
M037-B	4.12.06	1040	over 100 /	4.08	Top of Casing / Coupling	Marked / Unmarked North	
~~M037-C~~	~~4/12/06~~	~~1042~~	~~100/000~~	~~5.27~~			

** = > 8% Tidal Efficiency or 200 Feet of Shoreline

Water Level Meter #: IT30840

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials : ASD / CS

Sampling Team: 1 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 2 Wells							
M105-A	4.12.06	1138	0 / 000 / 000	—	Top of Casing / Coupling	Marked / Unmarked North	Water over Well Casing
M105-B	4.12.06	1141	0 / 000 / 000	1.59	Top of Casing / Coupling	Marked / Unmarked North	
M106-A	4.12.06		/ /		Top of Casing / Coupling	Marked / Unmarked North	No Such Well
M107-A**			/ /		Top of Casing / Coupling	Marked / Unmarked North	
M108-A	4.12.06	1355 ~~1450~~	/ 000 / 00.0	—	Top of Casing / Coupling	Marked / Unmarked North	Water over Well Casing
M108-B	4.12.06	1352 ~~1500~~	000 ~~over~~ / ~~100~~ / 00	3.28 ~~1.48~~	Top of Casing / Coupling	Marked / Unmarked North	
M109-A	4.12.06	0820	/ 000 / 000	3.15 ~~0.87~~	Top of Casing / Coupling	Marked / Unmarked North	

Water Level Meter #: 29619

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials CS / AD

Sampling Team: 1 2 (3) 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 14 Wells							
D14-01	4.11.06	0833	0 / 0 / 11.3	5.14'	(Top of Casing) / Coupling	(Marked) / Unmarked North	
** FS1MJ-MW-3	40' from Shoreline		/ /		Top of Casing / Coupling	Marked / Unmarked North	to be included in tidal study 40' from shoreline
M101-A	4.11.06	0800	0 / 0 / 0	0.73'	(Top of Casing) / Coupling	(Marked) / Unmarked North	well says M101-A2
M101-C	4.11.06	0755	6.8 / 15 / 1.6	1.79'	(Top of Casing) / Coupling	(Marked) / Unmarked North	never new bolts needs new expansion plug
M112-A	4.11.06	0828	0 / 0 / 1.5	1.00'	(Top of Casing) / Coupling	(Marked) / Unmarked North	
M113-A	4.11.06	0820	0 / 0 / 1.30	0.13'	(Top of Casing) / Coupling	(Marked) / Unmarked North	needs new expansion plug
M114-A	under water		/ /		Top of Casing / Coupling	Marked / Unmarked North	under water
M14-01**	4.17.06	9:18	0.0 / 0 / 0.0	5.4	(Top of Casing) / Coupling	(Marked) / Unmarked North	water in casing area
M14-02**	4.17.06	9:20	0.0 / 0 / 0.0	2.75	(Top of Casing) / Coupling	(Marked) / Unmarked North	
M14-03**	4.17.06	9:25	0.0 / 0 / 0.0	1.95	(Top of Casing) / Coupling	(Marked) / Unmarked North	

** = > 8% Tidal Efficiency or 200 Feet of ...oreline

Water Level Meter #: 29619

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials : RC / DH

Sampling Team: 1 (2) 3 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 14 Wells							
M15-01**			/ /		*Top of Casing / Coupling*	*Marked / Unmarked North*	
M15-02**			/ /		*Top of Casing / Coupling*	*Marked / Unmarked North*	
M15-03**			/ /		*Top of Casing / Coupling*	*Marked / Unmarked North*	

Water Level Meter #: 29619

Alameda Groundwater Level Measurement Form

Spring 2006 - Source 30

Samplers Initials : RC / DH

Sampling Team: 1 (2) 3 4

Well Name	Date	Time	PID / LEL / O2	Depth to Groundwater	Survey Location (Circle One)	Survey Point (Circle One)	Notes / Comments for Sampling
IR 28 Wells							
28SW01	4.17.06	8:27	0.0, 0, 10.0	4.55	Top of Casing / Coupling	Marked / Unmarked North	
28SW02	4.17.06	8:19	0.0, 0, 0.0	7.55 ~~7.28~~ rec	Top of Casing / Coupling	Marked / Unmarked North	
28SW03	4.17.06	8:10	0.0, 0, 0.0	8.25 ~~7.98~~ rec	Top of Casing / Coupling	Marked / Unmarked North	
28SW04	4.17.06	8:15	0.0, OVER 0.0	~~5.75~~ 5.45 rec	Top of Casing / Coupling	Marked / Unmarked North	Casing area full w/water
MBG-1	4.17.06	8:37	0.0, 0, 10.0	2.3	Top of Casing / Coupling	Marked / Unmarked North	Casing area full w/water

7.95
3
8.25

** = > 8% Tidal Efficiency or 200 Feet of ...oreline

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CTO – 016

04/10/06 - Spring 2006

Alameda Point, Alameda, CA

Basewide Groundwater Survey

SAFETY BRIEFING SIGN-OFF SHEET
NAS ALAMEDA SITE #1

I ACKNOWLEDGE THAT I HAVE RECEIVED AND UNDERSTOOD THE NAS ALAMEDA SITE #1 ORDNANCE SAFETY BRIEFING

Name (print)	Date	Organization	Signature	Remarks
Ashley Lynch	6-28-05	USDA-APHIS-WS	Ashley Lynch	
Arvind Azhari	9-1-05	ITSI	Arvind Azhari	
Andrew Sabin	9-1-05	ITSI	Andrew Sabin	
Shalom Becker	4-10-06	ERI		
Anthony Dodat	4-10-06	MACTFC		
Chad Simpson	4-10-06	MACTFC		
ROBYN CHAPPLE	4-10-06	ITSI	Robyn Chapple	
GERARD ELLISON	4/10/06	ITSI		
Dennis Hill	4/10/06	ITSI	D. Hill	
JD LENZEN	4/10/06	ITSI	JD Lenzen	

FIELD PHONE LIST

GERARD ELLISON	925 250.8154
Anthony Drolet	(707) 338-6001
Chad Simpson	(415) 378-3443
Shawn Baker	(707) 338-8014
Dennis Hill	(925) 260-3159
Robyn Chapple	(408) 836-9971
J.D. LENZEN	(925) [redacted]765-1335

CTO – 016

04/11/06 - Spring 2006

Alameda Point, Alameda, CA

Basewide Groundwater Survey

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 04/10/06 Time: 6:00 Page: 1 of 1
Customer: NAVY Project: ALAMEDA BASEWIDE GW SAMPLING Contract #: N68711-02- Proj. #: 02-125-11
Work Description: BASEWIDE GROUNDWATER SURVEY 78213

EMERGENCY PROCEDURES

Emergency Contact: 911 Emergency Number: 911 (510) 523-4357
Hospital/Clinic: 2070 CLINTON AVE Address: 2070 CLINTON AVE
Evacuation Procedures:

OTHER EMERGENCY CONTACTS

~~JEFF LOTT~~ Name	Phone	Name	Phone
JEFF LOTT ITSI H&S	925-250-7943	GERARD ELLISON ITSI SITE H&S	925-250-8154
ARVIND ACHARYA ITSI	510-719-6858	JD (ENTEN) ITSI TASK Mgr.	925-765-1335

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
SLIP, TRIP, FALL/SPILL, SPLASH	GENERAL & PETROLEUM (HCl,
LIFTING/OBJECTS AROUNDS WELL BOXES,	HNO3, NaOH, 2nAc)
biological HAZARDS (THORN, INSECTS)	

SITE ENTRY REQUIREMENTS

Check-In Procedures: TAILGATE CHECK IN
Training Requirements: HAZWOPER (40 HR)
Minimum PPE Required: LEVEL D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: WATER LEVELS
Specific safety issues/work practices: DELINIATE & ABOVE SITE HAZARDS

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Dennis Hill	D. Hill	ITSI			
Anthony S. Doslet		MACTEC			
Chad Simpson		Mactec			
Shawn Baker		ERI			
GERARD ELLISON		ITSI			
ROBYN CHAPPLE	Robyn Chapple	ITSI			
Brian Dee		ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: Name (printed) Signature
Site Superintendent: JAMES D (ENTEN) Name (printed) Signature

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/10/06

REPORT NO 201

PHASE	CONTRACT NO	CONTRACT TITLE
	N68711-02-D-8213	Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	None	

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	Groundwater level measurements for non-tidally influenced wells at IR Sites 3, 5 and 8.	

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	None

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Contact Doug DeLong when gates are inaccessible.

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Gerard Kelly 4/10/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	10-Apr-06
FIELD ACTIVITY DAILY LOG	Report	201
Project Name: Alameda Basewide Groundwater Monitoring	Project No	02-125.11
Activity Subject: Sampling of Basewide Program Monitoring Wells		

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	0
Total Work Hours On Job Site From Start Of Construction	80

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Collection of water levels at IR Sites 3, 5 and 8.

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: Howard A. Ellis DATE: 4/10/06

- Team (1)

Innovative Technical Solutions, Inc.

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By B. See Date 4-18-06 Subject Alameda Basewide Sheet No. 1 of 1

Chkd. By _____ Date _____ Project No. _____

0630: arrived on site
- Held morning tailgate meeting
- Calibrated field instruments
0730: Watched site-1 UXO video
0800: Took a tour of the base and site work locations.
0900: Moved to site-3 and started water level measurements.
1000: Made a detailed search of the soccer field to locate over grown wells.
Continued to measure wells on the south side of site-3.
1300: Completed the site-3 wells.
1500: Started to record water levels at site-5
1600: Moved back to field office - unloaded truck & set-up equipment.
1630: left site to ~~equip~~ environ-Tech for cal-gas and additional Equipment.

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 04/11/06 Time: 6:00 Page: 1 of 1
Customer: NAVY Project: ALAMEDA BASEWIDE GW SAMPLING Contract #: ~~CTO 16~~ N68711-02-D-8213 Proj. #: 02-125-11
Work Description: BASE WIDE GROUNDWATER SURVEY

EMERGENCY PROCEDURES

Emergency Contact: 911 / ITSI Emergency Number: 911 (510)523-4357
Hospital/Clinic: 2070 CLINTON AVE Address: 2070 CLINTON AVE, ALAMEDA
Evacuation Procedures: OPEN SPACE OUTSIDE TRAILER / IN PARKING LOT

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
JEFF LOTT ITSI H&S	925-250-7943	GERARD ELLISON ITSI SITE H&S	925-250-8154
ARVIND ACHARYA ITSI PM	510-719-6858	JD LENZEN ITSI TASK Mgr.	925-765-1335

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
TRIPING, SLIPING FALL	TPH, VOCS, SVOCS, GENERAL
CARS / TRAFFIC / VEHICAL HAZARDS, TRAFFIC	(SEE PST) — LOW LEVELS
OBJECTS AROUND WELL BOXES, BIOLOGICAL HAZARDS	SAMPLE PRESERVATIES (HCl, HNO3, NaOH
(THORNS, INSECTS)	ZnAc) / CONTACT W/ POTENTIALY CONTAMINATED GROUNDWATER

SITE ENTRY REQUIREMENTS

Check-In Procedures: ARIAL (TAILGATE)
Training Requirements: 40 HOUR / PHYSICAL
Minimum PPE Required: LEVEL D
Special Precautions: TRAFFIC CONES / DELINIATE

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: GROUND WATER LEVELS
Specific safety issues/work practices: NONE ASSIDE FROM DELINIATION & WATCH FOR SLIP, TRIP, FALL HAZARDS.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Anthony S. Dealet		MACTEC			
Chad Simpson		MACTEC			
Shawn Baker		ERI			
Dennis Hill		ITSI			
Robyn Chapple	Robyn Chapple	ITSI			
Brian Dee		ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name (printed)) (Signature)
Site Superintendent: JD LENZEN (Name (printed)) 04/11/06 (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/11/06

REPORT NO 202

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	Groundwater elevation measurements for non-tidally influenced wells at IR Sites 2, 7, 9, 14, 16, 26 and 27.	

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	None

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Gerard A. Ellis 4/11/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/11/06
FIELD ACTIVITY DAILY LOG	Report	202

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	80
Total Work Hours On Job Site From Start Of Construction	160

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater elevations for non-tidally influenced wells were collected at IR Sites 2, 7, 9 14, 16, 26 and 27.

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: [signature] DATE: 4/11/06

ITSI Technical Solutions, Inc.

Team D

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By B. See Date 4-11-06 Subject Alameda Waterlevels Sheet No. ____ of ____

Chkd. By ____ Date ____ Project No. ____

0630: Tailgate safety meeting
- calibrated field equipment - prepared paperwork
0730: Gained access to the Skaggs control area at site 5 and located wells for water levels
0830: Got remaining wells at site 5
0930: Started to get water levels at site 9
Measured water levels at all IRP locations
MW530-3 was flooded with rain water.
We were unable to locate M-TMF-01
1230: lunch - - started raining heavily
1300: Made an effort to take water levels at site 2
Heavy rain made for unsafe access to well locations
Moved back to the field office.
1400: Reviewed paperwork for site 7
Recorded water levels at accessable wells. Will have to get access to fenced areas to get remaining wells at site 7
1530: arrived at the field office completed daily paperwork.

Innovative Technical Solutions, Inc.

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By Anthony S. Dcolet / Chad Simpson Date 4-11-06 Subject FADL Sheet No. 1 of

Chkd. By Date Project No.

0600	@	Site Jcales, Tailgate meeting, Calibrate meters, gather paperwork & equipment.			
0730	@	Site 8 Looking for MO8-02 Couldn't Find. possibly abandoned & replaced w/ MO8-08			
0745	@	Site 14 orginize map + paperwork			
0755	@	M101-C	DTW = 1.79'		Need new expansion plug
0800	@	M101-A	DTW = 0.73'		well says M101-A2
0805	@	M114-A			under water
0820	@	M113-A	DTW = 0.13'		Need new expansion plug
0828	@	M112-A	DTW = 1.00'		
0833	@	014-01	DTW = 5.14'		
0840	@	FS1 MJ-MW-3		**	40' from shoreline
0850	@	M007-A			under water
0900	@	M006-A	DTW = 0.76'		
0905	@	M032-A	DTW = 0.95'		
0912	@	M005-A	DTW = 1.89'		
0920	@	M004-A	DTW = 2.36'		
0935	@	M003-B	DTW = 6.95'		
0942	@	M030-C	DTW = 6.13'		
0950	@	M001-B		**	100' from shoreline
1005	@	M033-A	DTW = 3.45		
1014	@	M034-A	DTW = 1.84		
1022	@	M035-A	DTW = 3.96		
1030	@	M027-B		**	100' from shoreline
1032	@	M027-C		**	100' from Shoreline
1042	@	M031-C	DTW = 3.95'		
1046	@	M031-E	DTW = 0.25'		
1050	@	M031-A	DTW = 0.35'		
1055	@	M025-C		**	15' from shoreline
1120	@	M003-A	DTW = 3.24'		
1130	lunch				
1200	At trailer to turn in level forms and to pick up additional.				
1300	@ ER 26 wells				
	26SW04, 26SW05, 26SW01, 26SW03, 26SW02 - inside bird habitat area				
1400	@ IR 16 wells				
	MWC2-2, FT655-MW06, 006MJ-MW2, MWC2-3, MWC2-1, MW16-06, MW16-05				

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Navy – 02-125.11	Date: 4-11-06	Page 1 of
Weather: Light showers		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:30 - Tailgate Safety Meeting and loaded equipment onto truck.
07:15-09:40-Site 9 well level measurements as follows:
M07C-07
M07C-08
M07C-09
M13-07
M13-08
M13-09
372-MW2
D13-01
D19-01
M07C-06
09:45-10:00 back to trailer to charge PID & get batteries for LEL. JD will bring to us.
10:15-12:15 -Site 9 well level measurements as follows:
M10B-01
D10B-02
M09-05
M09-06
M13-06
530MJ-MW1
530MJ-MW2
D10B-01
D09-01
12:30-14:55-Site 27 level measurements as follows:
27MW08
27MW05
27MW01

Prepared by:	Cont'd →	Signature:		Date:	

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Navy – 02-125.11	Date: 4-11-06	Page 2 of 2
Weather: Raining		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

(cont'd from previous page)

27 MW 02
27 MW 03
27 MW 04
~~27 MW 05 RC~~
27 MW 06
27 MW 07
15 MW 2
15 MW 1
15 MW 3

15:00 – Shaw allowed us back into gated area @ Site 9 to collect measurement @ D07C-01 & D07C-08.

Prepared by:	ROBYN CHAPPLE	Signature:	RobynChapple	Date:	4-11-06

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4616**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D12-01-A5129*	4-12-06	14:50			X	X					X	X		X	X	X									8.5		
D12-01-A5130*	4-12-06	15:00				X					X	X		X	X	X											

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4/12/06 (Date and Time)

RECEIVED BY: J D Lenzen (Printed Name) JD LENZEN (Signature)

RELINQUISHED BY: J D Lenzen (Printed Name) J D Lenzen (Signature)
ITSI (Company) 4/12/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4697**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5218	~~4/12/06~~ 4/29/06	~~7:00~~ 7:00 (D)	X																								
D12-01-A5130	4-12-06	14:50	X	X	X																						
D12-01-A5130	4-12-06	15:00	X	X	X																						
							RC													RC							

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
Company
Date and Time

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
Company
Date and Time

RECEIVED BY: (Printed Name) (Signature)

TAILGATE SAFETY MEETING

Innovative Technical Solutions, Inc.

Date: 4/12/06 Time: 0615 Page: 1 of 1
Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11
Work Description: GROUNDWATER LEVEL MEASUREMENTS

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357
Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue
Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A
Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling
Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Brian Dee	Brian Dee	ITSI			
Anthony S. Drolet		MACTEC			
Chad Simpson		Mactec			
Shawn Baker		ERI			
Robyn Chapple	Robyn Chapple	ITSI			
Dennis Hill	D. Hill	ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name (printed)) (Signature)
Site Superintendent: J.D. LENZEN (Name (printed)) (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/12/06
REPORT NO 203

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	Completed the groundwater elevation measurements for non-tidally influenced wells at IR Sites 2, 6, 7 and 25.	

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Collected groundwater samples at IR Site 5. Three wells were sampled and one field dup collected.

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE — DATE 4/12/06

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER — DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/12/06
FIELD ACTIVITY DAILY LOG	Report	203

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	160
Total Work Hours On Job Site From Start Of Construction	240

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Water level measurements at IR Sites 2 (non-tidally influenced), 6, 7 and 25.
Groundwater sampling at IR Site 5.

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: Gerard L. Ellis DATE: 4/12/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4.12.06	Page 1 of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: Well Measurement Monitoring

Subcontractors/Visitors:

Weather: Raining

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

6:00-6:55 - Tailgate Safety Meeting and loading equipment on truck.

07:00-12:05 Site 25 Well Measurement monitoring as follows:

D-02
M25-01
M25-02
M25-04
M25-05
M25-06
M25-07
M25-08
M25-09
MB6-02
P181-MW45
P181-MW46
P181-MW47
PW-10A
PW-12
S-16-R
S-35R-2

12:00-13:30 ~~13:20~~ - stop for lunch and collect (pick up) sampling kits.

13:30-16:00 Sampled well # D12-01

Prepared by:	ROBYN CHAPPLE	Signature:	Robyn Chapple	Date:	4.12.06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4-12-06	Page of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: open inspect DTW			
Subcontractors/Visitors:			
Weather: cold rain			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 onsite
0620 Safety meeting
0720 Began opening & DTW on IR site 6 13MW03, MW06 01, 02, 03, 04, 05, 06, 07
0855 opened DTW IR site 7 D07A-03, D07A-02, MW07A-03, MW07A-01, D07A-01, MW07A-05
1200: Lunch - Started raining
1030: Returned to the field office loaded the truck & mobed to site 5 and set up on well MW05-06 to start sampling
1200: Started low flow purge on MW05-06
1230: Collected sample from MW05-06
1300: Set up @ 60 unable to sample D05-03 due to rainwater flooding of the well area.
1310: Set up at well MW05-02
1320: Started purge on MW05-02
1405: Collected sample MW05-02
1430: Mobed back to the field office, unloaded the truck and equipment
- Samples were unloaded for QC checked
1530: Completed paperwork
1700: Left site

Prepared by:	B. Lee	Signature:		Date:	4-12-06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4-12-06	Page 1 of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Base Wide DTW's			
Subcontractors/Visitors: Anthony S. Dealet, Chad Simpson			
Weather: Rain / Cloudy			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 @ Site trailer for tailgate meeting, calibrate meters, gather paperwork & load equipment.

0730 @ Site #2 & Took DTW's @ Following wells - 265MW2, DRA-01, M109-A, M104-A, M104-B, M013-A, M013-C, M012-A, M012-B, M010A, M010-B M011-A, 442-MW1, M023-B, M023-C, M021-C, M020-B, M036-A, M036-B, M036-E M037-A, M037-B, M037-E, M039-A, M039-B, M038-A, M038-B, M038-E M016-B, M105-A, M105-B, M108-B, M108-A, M104-A, M103A, M103-B

Couldn't find these wells

1215 @ Site trailer for lunch

1245 @ Site #2 looking for wells we couldn't find

Found wells - M108-B, M108-A, M104-A, M103A, M103-B

1520 @ Site trailer for paperwork & equipment turn in.

1550 Leave Site.

Prepared by:	Anthony S. Dealet	Signature:		Date:	4-12-06

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.12.06

Well Number: **D12-01**

Weather: Sunny, Cloudy, (Rain), Windy, Hot **Temperature:** _____ **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		00
02:		00

Measured Well Depth: 71 ft.
Depth to Water (DTW): 4.30 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 66.7 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 61.73 liters
Casing Radius (R): 1.5 3" inch
Verified Depth to Water: 4.55 ft.
Field calculated -- 1 casing vol.*: 61.73 liters
Field calculated -- 3 casing vol.*: 185.19 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-3°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
14:05			300 ml/min	19.02	62.3	6.0	-8.5	-97	4.80	N	4.55	
14:10	1.5	.02	300/min	19.04	61.7	6.2	181	-8	3.87		4.55	
14:15	3	.05	300/min	19.08	62.2	6.3	88.5	-65	3.25		4.55	
14:20	4.5	.07	300/min	18.97	62.3	6.4	-80	-62	2.09		4.55	
14:25	6	0.1	300/min	18.99	62.3	6.4	44.1	-64	1.06		4.55	
14:30	7.5	0.12	300/min	19.03	62.3	6.3	12.0	-65	.68		4.55	
14:35	9	0.15	300/min	19.01	62.5	6.4	-1.6	-65	.64		4.55	
14:40	10.5	0.17	300/min	19.02	62.4	6.4	-36.2	-65	.62	↓	4.55	
							RC					
Previous Log readings												

Sample Date: 4.12.06 **Start Time:** 14:50 **End Time:** 15:55 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5218

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.55 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Unpreserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D12-01-A5129	NS	X	X	X	X					X*	X		X	X	X									X	
D12-01-A5130*	FD	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: FD start 15:00

30 Bottles

Sampler: RC

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB1-A5217
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYYMMDD) 2006/04/11 TIME (24 HRS) 0700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
X VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. Conyer

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5218
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYMMDD) 2006/04/11 TIME (24 HRS) 0700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Lenz

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4611**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D05-01-A5124*	4.13.06	1230				X					X	X		X	X	X											

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson (Printed Name) CHS (Signature)
ITSI (Company) 4/13/06 / 1520 (Date and Time)

RECEIVED BY: JD LENZEN (Printed Name) JD Lenzen (Signature)

RELINQUISHED BY: JD LENZEN (Printed Name) JD L (Signature)
ITSI (Company) 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4612**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
D05-03-A5125*	4.13-06	1446				X					X	X															

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: JD Lenzen (Printed Name) — JD Lenzen (Signature)
ITSI (Company) — 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4613**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Za AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
D05-04-A5126	4.13.06	11:00												X	X	X									S[PC]		

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Robyn Chapple (Printed Name) Robyn Chapple (Signature)
LTSI (Company) 11:45 (Date and Time)

RECEIVED BY: JD LENZEN (Printed Name) JD Lenzen (Signature)

RELINQUISHED BY: JD Lenzen (Printed Name) JD Lenzen (Signature)
ITSI (Company) 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4615**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
D05-06-A5128	4.13.06	8:20												X	X	X									DRC		
											RC																

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.13.06 11:45 (Date and Time)

RECEIVED BY: JD LENZEN (Printed Name) JD Lenzen (Signature)

RELINQUISHED BY: JD Lenzen (Printed Name) JD Lenzen (Signature)
ITSI (Company) 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

2ND SAMPLING

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4617
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M05-02-A5131	4-13-06	1600									X																

SAMPLED BY: Shawn Baker
SIGNATURE:
SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: J D Lenzen (Printed Name) / J D L (Signature)
ITSI (Company)
4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) / Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4618**
Page: 9/ of 1

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M05-04-A5132*	4/15/06	1120									X	X		X	X	X											

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Shawn Baker (Printed Name) — (Signature)
ITSI (Company) — 4-13-06 1200 (Date and Time)

RECEIVED BY: JD LENZEN (Printed Name) — (Signature)

RELINQUISHED BY: JD (Printed Name) — (Signature)
ITSI (Company) — 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

2ND Sampling

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4620
Page: 1 of 1

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-g as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCl	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH + Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M05-06-A5134*	4-13-06	1400			X	X					X	X															

SAMPLED BY: Brian See
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian See — Printed Name
Signature
ITSI — Company
4/13/06 1600 — Date and Time

RECEIVED BY: Tony Rojas — Printed Name
Signature

RELINQUISHED BY: _____ — Printed Name
Signature
_____ — Company
Date and Time

RECEIVED BY: _____ — Printed Name
Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4621**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M05-08-A5135*	4.13.06	1415				X					X	X		X	X	X											

SAMPLED BY: Anthony S. Dsolet / Chad Simpson
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Anthony S Dsolet (Printed Name) — (Signature)
ITSI (Company) — 4.13.06 1520 (Date and Time)

RECEIVED BY: JD LENZEN (Printed Name) — (Signature)

RELINQUISHED BY: JD Lenzen (Printed Name) — (Signature)
ITSI (Company) — 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4622**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M05-09-A5136*	4/13/06	0835			~~Yes~~	X					X	X		X	X	X											

SAMPLED BY: C. Simpson / A. Rolef
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson (Printed Name) — (Signature)
~~Weiss~~ ITSI (Company) — 4/13/06 / 1520 (Date and Time)

RECEIVED BY: JD Lenzen (Printed Name) — (Signature)

RELINQUISHED BY: JD Lenzen (Printed Name) — (Signature)
ITSI (Company) — 4/13/06 1610 (Date and Time)

RECEIVED BY: Tony Lojas (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4623**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M05-11-A5137*	4.13.06	1040	X	X	X	X					X	X		X	X	X											

SAMPLED BY: Anthony S. Dealet / Chad Simpson
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Anthony S. Dealet (Printed Name) — (Signature)
ITSI (Company) — 4.13.06 1520 (Date and Time)

RECEIVED BY: J.D. Lenzen (Printed Name) — (Signature)

RELINQUISHED BY: J.D. Lenzen (Printed Name) — (Signature)
ITSI (Company) — 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4625**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M10-01-A5139*	4.13.06	14:15				X			X		X	X		X	X	X											
M10-01-A5140*	4.13.06	14:30				X			X		X	X		X	X	X											

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Robyn Chapple (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4-13-06 15:00 (Date and Time)

RECEIVED BY: JD LENZEN (Printed Name) (Signature)

RELINQUISHED BY: JD LENZEN (Printed Name) (Signature)
ITSI (Company) 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

186183

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4699
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 LA	1 LA	1 LA	1 LA	1 LA	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCl	Unpres	HCl	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
-1 TB1-A5220	4-13-06	0700	X																								
-2 MO5-05-A5133	4-13-06	0820	X	X	X																						
-3 MO5-04-A5132	4-13-06	1120	X	X	X																						
-4 MO5-06-A5134	4-13-06	1400	X		X																						
-5 DO5-03-A5125	4-13-06	1446	X		X																						
-6 MO5-02-A5131	4-13-06	1600	V																								

SAMPLED BY: Shawn Baker
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker [signature]
Printed Name Signature
ITSI 4-13-06 1625
Company Date and Time

RECEIVED BY: [signature]
Printed Name Signature
4-13-06 2100

RELINQUISHED BY: _____
Printed Name Signature
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

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2730 Shadelands Drive, Suite 100
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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4700**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5221	4/13/06	700	X																								
DO5-06-A5128	4.13.06	820	X																								
DO5-05-A5127	4.13.06	935	X																								
DO5-04-A5126	4.13.06	1100	X																								
MW-01-A5139	4.13.06	14:15	X	X	X																						
MW-01-A5140	4.13.06	14:30	X	X	X																						
						RC												RC									

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Robyn Chapple (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.13.06 15:00 (Date and Time)

RECEIVED BY: JD LENZEN (Printed Name) JD Lenzen (Signature)

RELINQUISHED BY: JD LENZEN (Printed Name) JD Lenzen (Signature)
ITSI (Company) 4/13/06 1600 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4701**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCL~~ Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB3-A5222	4/13/06	700	X																								
MO5-09-A5136	4.13.06	0835	X	X	X																						
MO5-11-A5137	4.13.06	1040	X	X	X																						
DO5-01-A5124	4.13.06	1230	X	X	X																						
MO5-28-A5135	4.13.06	1415	X	X	X																						

SAMPLED BY: C. Simpson / A. Aalest
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) — Signature
~~Mactec~~ ITSI (Company) — 4/13/06 / 1520 (Date and Time)

RECEIVED BY: J D LENZEN (Printed Name) — Signature

RELINQUISHED BY: J D LENZEN (Printed Name) — Signature
1151 (Company) — 4/13/06 1800 (Date and Time)

RECEIVED BY: Tony Lojo (Printed Name) — Signature

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 4/13/06 Time: 0600 Page: 1 of 1

Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11

Work Description: GROUNDWATER SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357

Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue

Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A

Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness

Minimum PPE Required: Level D

Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling

Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Shawn Baker		ERI			
Dennis Hill	D. Hill	ITSI			
Robyn Chapple	Robyn Chapple	ITSI			
Chad Simpson		MACTEC			
Anthony S. Drolet		MACTEC			
Brian Dee		ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name printed) Signature

Site Superintendent: JD LENZEN (Name printed) Signature

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/13/06

REPORT NO 204

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Site 5
	Eleven samples collected, two of which were re-samples from 4/12/06 (M05-02 and M05-06 failed conductivity)
	Site 5 is 57% complete.

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Review stabilization criteria with sampling crews

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Gerard A. Ellis 4/13/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/13/06
FIELD ACTIVITY DAILY LOG	Report	204
Project Name: Alameda Basewide Groundwater Monitoring	Project No	02-125.11
Activity Subject: Sampling of Basewide Program Monitoring Wells		

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	240
Total Work Hours On Job Site From Start Of Construction	320

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Site 5.

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: Steven A. Ellis DATE: 4/13/06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.13.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213		Project No.: 02 125.11
Work Description: Ground Waters Sampling			
Subcontractors/Visitors: Anthony S. Dcolet, Chad Simpson			
Weather: Cloudy AM - Clear PM			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 @ site trailer, have tailgate meeting, gather paperwork + equipment.
0730 @ MW0509, DTW = 4.86, TD = 14.20
0805 start purge Sample # M05-09-A5136 @ 0835
0825 End purge 1.04 total volume
0900 Pack up
0930 office review of sample form and coc w/ gerard.

0945 @ M05-11, DTW = 6.45, TD = 14.65'
1000 Start Purge
1030 End purge
Sample # M05-11-A5137 @ 1040

1125 @ D05-01, DTW = 5.56', TD = 69.00'
1140 start Purge
1220 End purge
1230 Sample # D05-01-A5124
1245 Tool Lunch
1320 @ M05-08-A5135 DTW = 5.45 TD = 14.4
Start Purge @ 1345
End Purge @ 1415
Sampled M05-08-A5135 @ 1415
1430 To trailer to QC samples and check in.
1445 emptied purge water into site compound holding tank

Prepared by:	Chad Simpson	Signature:		Date:	4/13/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date:	Page of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11
Work Description:		
Subcontractors/Visitors:		
Weather:		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0630: arrived on site and set up truck for sampling
- attended morning tailgate meeting.
Calibrated field equipment and set-up paperwork.
0700: Headed out to site-5 located sample wells.
0730: Set up on well MW5-05.
0800: Started purge on MW5-05
0820: Collected sample from MW5-5
0900: Started purge on - DW5-04
0915: Completed purge on DW5-04, sample team #2 will collect sample from DW5-04
1020: Set up on MW5-04
1035: Started purge on MW5-04
1120: Collected sample from MW5-04
1200: moved back to the field office unloaded samples.
1230: lunch
1330: Headed back to site-5, set up on well MW5-06
1311: Started purge
1400: Collected sample MW5-06-A5133
1410: set up at DW5-03
1416: Started purge
1446: Collected sample at DW5-03-A5125
1500: Set up at MW5-02
1518: Started purge
1600: Collected sample MW5-02-A5131
1615: Moved back to the field office
1700: left site

Prepared by:	B. Lee	Signature:		Date:	4/13/06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.13.06	Page 1 of
Client: Navy	Contract No.: N68711-02-D-8213		Project No.: 02 125.11
Work Description: Well Sampling - Site 5			
Subcontractors/Visitors:			
Weather: Sunny			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-07:15 - Tailgate Safety meeting, calibration of equipment, loading of equipment onto trucks and received assignments.
07:30-08:45 - Purged and sampled well #D05-06.
09:00-10:00 - Purged and sampled well #D05-05.
10:45-11:15 - Sampled well #D05-04.
11:45-12:15 - Lunch
13:00-15:00 - Purged and sampled well #M10-01 as well as a duplicate of this well.
15:00-16:00 - Unloading truck and COC's.

Prepared by:	ROBYN CHAPPLE	Signature:	Robyn Chapple	Date:	4.13.06

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **D05-01**

Purge Date: 4.13.06

Weather: Sunny, (Cloudy) Rain, Windy, Hot Temperature: 62°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		
LEL:	9517135	0
02:	9517135	0

Measured Well Depth: 69.00' ft.

Depth to Water (DTW): 5.56' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 63.44' ft.

One Casing Volume= ~~[0.163~~ .367 x T(ft) x R(inches)²] x 3.7854: 132.20 liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: 5.56 ft.

Field calculated -- 1 casing vol.*: 132.20 liters

Field calculated -- 3 casing vol.*: 396.601 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	Ferrous Iron = 1.0 mg/L
1140	1.3	.01	.3/min	18.9	53.7	6.76	62.9	-132	4.09	Y	5.60	
1150	~~3~~ 3.0	~~.02~~	.3/min	19.1	52.6	6.74	11.7	-103	0.52	Y	5.60	
1200	~~6~~ 6.0	.05	.3/min	19.2	51.8	6.74	5.4	-92	0.42	Y	5.60	
1206	8.4	.06	.3/min	19.3	51.4	6.74	4.0	-87	0.39	Y	5.60	
1212	9.6	.07	.3/min	19.3	51.3	6.74	4.7	-86	0.39	Y	5.60	
1220	12.0	.09	.3/min	19.3	51.3	6.74	4.5	-87	0.40	Y	5.60	
Previous Log readings												

CWS 4/13/06

Sample Date: 4.13.06 **Start Time:** 1140 **End Time:** 1230

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5222 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 5.60 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	~~Ua~~ HCl preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D05-01-A5124	NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: _____

15 Bottles

Sampler: CS

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-13-06

Well Number: D05-03

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:	423014	0.0
02:	423014	21.0

Measured Well Depth: 67.05 ft.
Depth to Water (DTW): 2.85 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 64.2 ft.

One Casing Volume=[redacted] 39.61 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.85 ft.
Field calculated -- 1 casing vol.*: 39.61 liters
Field calculated -- 3 casing vol.*: 118.83 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1416	0	0	300 ml/m	19.39	.170	7.44	93.3	195	8.98	N	2.97	
1421	1.5	.037		18.87	.058	7.21	6.0	253	9.79	N	2.97	
1426	3.0	.075		18.88	.045	7.15	5.5	263	9.85	N	2.98	
1431	4.5	.11		18.88	.040	7.13	4.4	270	9.89	N	2.98	
1436	6.0	.15		18.90	.039	7.11	5.1	281	9.89	N	2.99	
1441	7.5	.18		18.90	.038	7.09	4.8	282	9.89	N	2.99	
Previous Log readings												

Sample Date: 4-13-06 **Start Time:** 1446 **End Time:** 1454 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1-A5220

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.99 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D05-03-A5125	NS	X		X	X					X*	X														

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 9 Bottles Sampler: Shawn Baker

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **D05-04**

Purge Date: 4.13.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		0.0
LEL:		0
02:		21.0

Measured Well Depth: 71.45 ft.
Depth to Water (DTW): 7.14 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 64.31 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 79.36 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 7.14 ft.
Field calculated -- 1 casing vol.*: 79.36 liters
Field calculated -- 3 casing vol.*: 238.08 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0942	0		.3	21.77	59.0	6.63	0.0	83	.28	N	7.51	
0947	1.5	0.02		21.79	59.0	6.63		71	.26		7.52	
0952	3	0.04		21.73	59.1	6.63		62	.28		7.54	
0957	4.5	0.06		21.40	59.2	6.63		44	.30		7.54	
1002	6	0.08		21.48	59.2	6.63		31	.31		7.55	
1007	7.5	0.10		21.49	59.2	6.63		28	.30		7.55	
1012	9	0.11		21.52	59.3	6.62		12	.31		7.55	
						RC						
Previous Log readings												

Sample Date: 4.13.06 **Start Time:** 11:00 **End Time:** 11:10 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5221

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.55 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D05-04-A5126	NS	X											X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 8

7 Bottles

Sampler: Rob Chapple

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 5

Event: Spring2006

Purge Date: 4·13·06

Well Number: D05-06

Weather: (Sunny) (Cloudy) (Rain) Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 492.58 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 7 ft.

Field calculated – 1 casing vol.*: 492.58 liters

Field calculated -- 3 casing vol.*: 1477.74 liters

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0
02:		0.0

Measured Well Depth: 71.40 ft.

Depth to Water (DTW): 6.5 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 64.9 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:50			.4/min	18.01	53.6	6.23	-10	-123	1.73	N	7	
7:55	2	0.004	.4/min	18.21	54.5	6.64	-9.3	-132	1.11	N	7.15	
8:00	4	0.008	.4/min	18.34	54.8	6.82	-9.8	-134	0.96	N	7.18	
8:05	6	0.01	.4/min	18.32	54.9	6.91	-8.8	-136	0.88	N	7.19	
8:10	8	0.02	.4/min	18.44	55.1	7.0	-10	-138	0.80	N.	7.18	
8:15	10	0.02	.4/min	18.51	55.1	7.05	-10	-138	0.81	N	7.18	
				RC							RC	
Previous Log readings												

Sample Date: 4·13·06 **Start Time:** 8:20 **End Time:** 8:30 **Equipment Blank Collected:** N/A **Trip Blank Collected:** ~~RC-EBA~~ TB2-A5221

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.18 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D05-06-A5128	NS	X											X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Facility 1 of 2 7 Bottles Sampler: Adam Chanalo

2ND SAMPLING

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-13-06

Well Number: **M05-02**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 67° Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:	423014	0.0
02:	423014	20.0

Measured Well Depth: 13.60 ft.
Depth to Water (DTW): SWB [redacted] 5.76 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 7.84 ft.

One Casing Volume= [redacted] 4.83 liters
Casing Radius (R): 1 inch
Verified Depth to Water: SWB [redacted] 5.76 ft.
Field calculated – 1 casing vol.*: 4.83 liters
Field calculated -- 3 casing vol.*: 14.49 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-0C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
1518	0	0	300 mL/min	19.59	33.2	6.66	59.1	-182	.74	N	5.86	
1523	1.5	.31		19.09	27.6	6.71	38.6	-191	.30	N	5.89	
1528	3.0	.62		18.95	16.7	6.83	8.6	-187	.27	N	5.81	
1533	4.5	.93		18.26	14.0	6.87	6.9	-171	.68	N	5.84	
1538	6.0	1.24		18.79	13.1	6.86	2.2	-140	1.26	N	5.89	
1543	7.5	1.55		18.59	12.6	6.86	2.6	-129	1.46	N	5.89	
1548	9.0	1.86		18.62	12.1	6.86	.5	-116	1.66	N	5.89	
1551	10.5	2.17		18.62	11.8	6.86	.8	-112	1.73	N	5.89	
1554	12.0	2.48		18.66	11.8	6.86	1.9	-110	1.74	N	5.89	
Previous Log readings												

Sample Date: 4-13-06 **Start Time:** 1600 **End Time:** 1605 **Equipment Blank Collected:** ____ **Trip Blank Collected:** TBI-A5220

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.79 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Stronium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05-02-A5131	NS	X								X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: ____

4 Bottles

Sampler: Shawn Baker

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-13-06

Well Number: **M05-04**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 59° Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		0.0
LEL:		0.0
02:		21.0

Measured Well Depth: 15.01 ft.
Depth to Water (DTW): 4.45 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.56 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.51 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.45 ft.
Field calculated -- 1 casing vol.*: 6.51 liters
Field calculated -- 3 casing vol.*: 19.53 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
1035	0	0	300 ml/m	19.16	4.41	7.28	10.5	54	1.07	N	4.50	
1040	1.5	.23		18.46	3.69	7.01	3.3	22	.07	N	5.01	
1045	3.0	.46		18.45	3.63	6.97	0.0	-43	.03	N	5.02	
1050	4.5	.69		18.33	3.40	6.93	0.0	-61	.31	N	5.05	
1055	6.0	.92		18.31	3.07	6.87	0.0	-61	.34	N	5.05	
1100	7.5	1.15		18.30	2.94	6.84	0.0	-65	.31	N	5.05	
1105	9.0	1.38		18.25	2.84	6.82	0.0	-68	.26	N	5.05	
1110	10.5	1.61		18.51	2.80	6.80	12.5	-71	.24	N	5.0	
1115	12.0	1.84	—	18.50	2.80	6.79	8.5	-76	.23	N	5.0	
Previous Log readings												

Sample Date: 4-13-06 **Start Time:** 1120 **End Time:** 1145 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TBI A5220

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.97 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05-04-A5132 NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe @ 0.0

15 Bottles

Sampler: Shawn Bakey

2ND Sampling

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: M05-06 Purge Date: 4-13-06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: °60 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:	423014	0.0
02:	423014	21.0

Measured Well Depth: 12.35 ft.
Depth to Water (DTW): 6.21 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.14 ft.

One Casing Volume=[redacted] 3.78 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 6.21 ft.
Field calculated -- 1 casing vol.*: 3.78 liters
Field calculated -- 3 casing vol.*: 11.34 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1311	0	0	300 mL/m	19.28	12.6	7.02	37.1	76	1.25	N	6.25	
1316	1.5	.39		18.94	6.95	7.00	10.7	19	1.53	N	6.32	
1321	3.0	1.79		18.90	6.56	7.00	3.5	37	2.05	N	6.32	
1326	4.5	1.19		18.82	6.30	7.00	1.3	55	2.42	N	6.32	
1331	6.0	1.58		18.73	5.92	7.01	2.8	62	2.42	N	6.33	
1336	7.5	1.48		18.64	5.71	7.02	2.0	68	2.50	N	6.30	
1341	9.0	2.38		18.59	5.55	7.06	0.0	64	2.28	N	6.30	
1346	10.5	2.77		18.61	5.46	7.06	0.0	62	2.26	N	6.30	
1351	12.0	3.17		18.56	5.39	7.05	0.0	60	2.24	N	6.30	
Previous Log readings												

Sample Date: 4-5-06 **Start Time:** 1400 **End Time:** 1410 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1-A5220

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.28 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05-06-A5134	NS	X		X	X					X*	X														

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 9 Bottles Sampler: Shawn Baker

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-13-06

Well Number: **M05-08**

Weather: (Sunny,) Cloudy, Rain, Windy, Hot **Temperature:** 70°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		
LEL:	9517135	002
02:	9517135	000

Measured Well Depth: 14.4 ft.

Depth to Water (DTW): 5.45 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 8.95 ft.

One Casing Volume=[0.163 x T(ft) x R(inches)] x 3.7854: 5.522 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 5.45 ft.

Field calculated -- 1 casing vol.*: 5.522 liters

Field calculated -- 3 casing vol.*: 16.567 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1348	3	0.05	~3/min	20.8	1.04	7.62	39.6	-46	4.55	N	5.54	
1351	1.2	0.22	~3/min	20.1	0.90	7.43	17.4	-40	4.36	N	5.54	
1354	2.4	0.43	~3/min	20.0	1.09	7.32	8.4	-49	5.06	N	5.54	
1357	3.0	0.54	~3/min	20.0	1.08	7.26	4.4	-56	3.71	N	5.54	
1400	3.9	0.71	~3/min	20.0	1.10	7.23	2.4	-66	3.17	N	5.54	
1403	4.8	0.87	~3/min	20.0	1.09	7.23	1.2	-77	3.73	N	5.54	
1406	5.7	1.03	~3/min	19.9	1.12	7.23	2.7	-83	3.69	N	5.54	
1409	6.6	1.20	~3/min	19.9	1.10	7.21	0.1	-91	3.77	N	5.54	
Previous Log readings												

Sample Date: 4-13-06 **Start Time:** 1345 **End Time:** 1415 **Equipment Blank Collected:** _____ **Trip Blank Collected:** _____

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** _____ mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water _____ **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05-08-A5135	NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: [illegible]

15 Bottles

Sampler: [illegible]

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 5

Event: Spring2006

Purge Date: 4.13.06

Well Number: M05-09

Weather: Sunny, (Cloudy), Rain, Windy, Hot Temperature: 56°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:		
LEL:	95/7135	000
02:	95/7135	000

Measured Well Depth: 14.20 ft.

Depth to Water (DTW): 4.86 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.34 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.763 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 4.86 ft.

Field calculated -- 1 casing vol.*: 5.763 liters

Field calculated -- 3 casing vol.*: 17.289 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												Ferrous Iron = 0
0805	.3	.05	.3/min	15.1	.658	6.19	455	289	6.99	N	5.02	
0810	1.5	.26	.3/min	15.0	.655	6.62	336	95	6.19	N	5.06	
0815	3.6	.52	.3/min	15.1	.655	6.78	345	57	5.83	N	5.07	
0820	4.50	.78	.3/min	15.1	.653	6.89	342	53	6.14	N	5.11	
0825	6.00	1.04	.3/min	15.1	.643	6.95	323	46	6.04	N	5.09	
Previous Log readings												

Sample Date: 4.13.06 **Start Time:** 0835 **End Time:** 0900

Equipment Blank Collected: NA 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5222 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 4.95 MS/MSD ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05-09-A5136	NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

15 Bottles

Sampler: CS / AD

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M05-11**

Purge Date: 4.13.06

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 65°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		
LEL:	9517135	000
02:	9517135	000

Measured Well Depth: 14.65 ft.

Depth to Water (DTW): 6.45 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 8.20 ft.

One Casing Volume= ~~[0.163 x T(ft) x R(inches)²]~~ x 3.7854: 5.060 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 6.45 ft.

Field calculated -- 1 casing vol.*: 5.060 liters

Field calculated -- 3 casing vol.*: 15.179 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1005	.3	.06	.3/min	15.8	33.1	6.87	24.3	-203	1.33	Y	6.50	
1010	1.5	.30	.3/min	15.7	29.8	6.94	8.7	-206	.87	Y	6.51	
1015	3.0	.59	.3/min	15.7	27.8	7.00	2.9	-210	.62	Y	6.52	
1020	4.50	.89	.3/min	15.7	27.2	7.02	2.3	-211	.52	Y	6.52	
1025	6.00	1.19	.3/min	15.7	26.7	7.04	1.7	-312	.46	Y	6.52	
1030	7.50	1.48	.3/min	15.7	26.5	7.05	1.5	-213	.42	Y	6.52	
Previous Log readings												

4.13.06

Sample Date: 4.13.06 **Start Time:** 1000 **End Time:** 1040 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5222

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** .75-100 mL/min

Final Depth to Water 6.48 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05-11-A5137 NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 6 mg/L **15 Bottles** Sampler: RD/CS

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.13.06

Well Number: **M10-01**

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0
02:		0.0

Measured Well Depth: 14.1 ft.
Depth to Water (DTW): 3.10 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ~~0.62~~ 0.79 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.5 ft.
Field calculated – 1 casing vol.*: 0.62 liters
Field calculated – 3 casing vol.*: 1.86 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
13:22		0.22	.3	15.18	2.72	8.38	31.5	25	6.22	N	3.5	
13:27	1.5	2.42	.3	14.40	1.85	8.38	35.5	27	3.43	N	3.5	
13:32	3	0.44	.3	14.22	1.21	8.31	40.8	31	2.82	N	3.5	
13:37	4.5	0.66	.3	14.14	1.05	8.26	31.5	31	2.49	N	3.5	
13:42	6	0.88	.3	14.10	0.96	8.23	18.0	28	2.19	N	3.5	
13:47	7.5	1.10	.3	14.11	0.93	8.21	24.7	26	2.04	N	3.5	
13:52	9	1.33	.3	14.08	0.92	8.20	21.5	24	1.87	N	3.5	
					RO							RO
Previous Log readings												

Sample Date: 4.13.06 **Start Time:** 14:15 **End Time:** 15:00 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5221

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min
1/day/team when portable pump (or other non disposable reusable equipment) is used
Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.5 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M10-01-A5139	NS	X	X	X	X			X		X*	X		X	X	X									X	
M10-01-A5140*	FD	X	X	X	X			X		X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 8

32 Bottles

Sampler: Robyn Chapple

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB1-A5220
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYMMDD) 2006/04/13 TIME (24 HRS) 7:00

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature:

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5221
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYMMDD) 2006/04/13 TIME (24 HRS) 7:00

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
TB (Trip blank for a NS sample)	NA	WQ
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☐ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cruz

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5222
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 3

DATE (YYYMMDD) 2006/04/13

TIME (24 HRS) 7:00

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
TB (Trip blank for a NS sample)	NA	WQ
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☐ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature:

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 4/17/06 Time: 0630 Page: 1 of 1

Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11

Work Description: Water levels & Groundwater Sampling

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357

Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue

Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A

Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness

Minimum PPE Required: Level D

Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling

Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
ROBYN CHAPPLE	RobynChapple	ITSI			
Brian Dee		ITSI			
Dennis Hill	D. Hill	ITSI			
Anthony S. Dolet		MACTEC			
Jud Simpson		MACTEC			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name printed) _____ (Signature)

Site Superintendent: JD LENZEN (Name printed) _____ (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/17/06
REPORT NO 205

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☒ NO ☐

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #
	Water level measurements at tidally influenced wells, IR Sites 1,2, 32, 14 and 28	

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Site 5 and IR Site 1
	Six wells sampled at IR Site 5
	One well sampled at IR Site 1
	IR Site 5 is 94% complete, the final sample will be collected 4/18/06

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	M05-05 did not meet stabilization criteria and is the last well for
	IR Site 5

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Continue to review stabilization criteria and sampling protocol with Field Techs.

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Signature 4/17/06
AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/17/06
FIELD ACTIVITY DAILY LOG	Report	265

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	0

Total Work Hours On Job Site This Date inc. Cont. Sheet	70
Cumulative Total of Work Hours From Previous Report	320
Total Work Hours On Job Site From Start Of Construction	390

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Water level measurements at tidally influenced wells located at IR Sites 1, 32, 2, 14 and 28.
Groundwater sampling at IR Sites 5 and 1

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: Gerard A. Ellis DATE: 4/17/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4/17/06	Page 1 of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11
Work Description: Water levels & Groundwater sampling		
Subcontractors/Visitors:		
Weather: Clear / Sunny		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 - Arrive onsite
0630 - Conduct H&S tailgate
0800 - Mob to Site 2 and begin setup for water levels
1020 - Finish water levels at site 2
1040 - Return to trailer for break & sampling supplies
1100 - Mob to site 5
1145 - Setup at M10-02
1216 - Collect sample from M10-02
1300 - Setup at M05HW-01
1350 - Collect sample from M05HW-01
1415 - Mob back to trailer
1615 - Demob site headed for C&T Labs

EE

Prepared by:	G Ellison	Signature:		Date:	4/17/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4-17-06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11
Work Description: Water levels & sampling		
Subcontractors/Visitors:		
Weather: Sunny		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-08:00 - Tailgate Safety Meeting, Calibration of equipment, loading onto truck of equipment and daily assignments.

08:00-8:45 Site 28 wells measurements as follows:

28 SW01
28 SW02
28 SW03
28 SW04
MBG-1

09:00-9:45 Site 14 as follows:

M14-01
M14-02
M14-03
M15-01, M15-02, M15 03 - unable to locate

10:00-10:45 Sampled Well D5-05.
11:00-11:30 Looked for well 2MW85.
10:45-12:40 Sampled Well 2mw85.
12:45-13:30. Lunch
14:30-15:30 Purged & sampled Well 2mw85 over.
15:30-16:00 - Demobilized

Prepared by:	Robyn Chapple	Signature:	Robyn Chapple	Date:	4.17.06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4.17.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: Water levels / Ground Water Sampling

Subcontractors/Visitors: Anthony S. Doolet / Chad Simpson

Weather: Sunny

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 @ Site trailer, Calibrate meters, tailgate meeting, Gather paperwork load up equipment.

0800 @ Site #1 For Tidal Study DTW's.

Collect DTW's For following wells - MO27-C, MO27-F, MO28-F, MO29A, MO29-E MO30-A, MO30-E, MO25-A, MO25E, MO26-A, MO26-E, MO27-A, MO27-B MO01,A, MO01-B, MO01-E, MO03-A, MO02-E, MO03-E

1030 @ Site #5 M12-04-A5143 DTW = 2.64 - Sampled well

1200 @ Site #5 MW7-E-A5142 DTW = 3.89' - Sampled well

1330 @ Site #5 M005-A-A50046 - Sampled well

1530 to trailer to QC/turn in samples

Prepared by:		Signature:		Date:	4/17/06

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4507**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M005-A-A5008	4/17/06	1450															X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson | A. Dolet
SIGNATURE: C.W.S.

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Anthony S. Dcolet — Printed Name — Signature
ITSI — Company — 4.17.06 1530 — Date amd Time

RECEIVED BY: GERARD Ellison — Printed Name — Signature
Ambient / Intact

RELINQUISHED BY: GERARD Ellison — Printed Name — Signature
ITSI — Company — 4/17/06 1835 — Date amd Time

RECEIVED BY: Lavanne Curtis — Printed Name — Signature
Company

4-17-06 1835

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4610
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
2MW8S-A5123*	4.17.06	15:00				X	X	X	X		X	X		X	X	X			RC								
					RC																						

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Robyn Chapple (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.17.06 15:30 (Date and Time)

RECEIVED BY: GERARD ELLISON (Printed Name) (Signature)

RELINQUISHED BY: GERARD ELLISON (Printed Name) (Signature)
ITSI (Company) 4/17/06 1635 (Date and Time)

RECEIVED BY: Leevanna Curtin (Printed Name) (Signature)

4-17-06 4:35 p.m.

RCVD intact, on ice

Innovative Technical Solutions, Inc.
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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4614**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D05-05-A5127	4.17.06	10:35												X	X	X											

RC

RC

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Robyn Chapple (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.17.06 13:00 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4624**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M05HW-01-A5138*	4/17/06	1350				X					X	X		X	X	X											

SAMPLED BY: G. Ellison / B. Dee
SIGNATURE: Gerard Ellison

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: GERARD ELLISON — Gerard Ellison
Printed Name — Signature

ITSI — 4/17/06 1430
Company — Date amd Time

RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature

_____ — _____
Company — Date amd Time

RECEIVED BY: _____ — _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4626**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M10-02-A5141*	4/17/06	1216				X					X	X		X	X	X											

SAMPLED BY: GERARD ELLISON / BRIAN DEE
SIGNATURE: Gerard Ellison

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: GERARD ELLISON (Printed Name) Gerard Ellison (Signature)
ITSI (Company) 4/17/06 1430 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4627**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M117-E-A5142*	4/6/06	1310				X					X	X		X	X	X											

SAMPLED BY: C. Simpson / A. Violet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: JD Lenzen (Printed Name) — (Signature)
ITSI (Company) — 4/7/06 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

RELINQUISHED BY: (Printed Name) — (Signature)
(Company) — (Date and Time)
RECEIVED BY: (Printed Name) — (Signature)

Innovative Technical Solutions, Inc.
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Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4628**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M12-04-A5143*	4/17/06	1110				X					X	X		X	X	X											

SAMPLED BY: Chad Simpson / Anthony Drolet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: JB LENZEN (Printed Name) — (Signature)
ITSI (Company) — 4/17/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4702**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB1-A5223	4/17/06	0700	X																								
M10-02-A5141	4/17/06	1216	X	X	X																						
M05 HW-01-A5138	4/17/06	1350	X	X	X																						

SAMPLED BY: BRAIN DEE
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee — Printed Name — Signature
ITSI — Company
4/17/06 1615 — Date and Time

RECEIVED BY: GERARD ELLISON — Printed Name — Signature

RELINQUISHED BY: GERARD ELLISON — Printed Name — Signature
ITSI — Company
4/17/06 4:35 p.m. — Date and Time

RECEIVED BY: Lavonna Curtis — Printed Name — Signature

RECEIVED BY:
☐ Cold ☐ Ambient ☑ Intact

4/17-06
4:35

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4703**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB2-A5224	4/17/06	0700	X																								
DO5-05-A5227	4-17-06	10:35	X																								
2MWSS-A5223	4-17-06	~~12:05~~ 15:20	X	X	X																						

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE Robyn Chapple
Printed Name Signature
ITSI 4-17-06 15:30
Company Date and Time

RECEIVED BY: GERARD ELLISON
Printed Name Signature

RELINQUISHED BY: GERARD ELLISON
Printed Name Signature
ITSI 4/17/06
Company Date and Time

RECEIVED BY: Lavanna Curtis
Printed Name Signature

Cold Ambient Intact

4-17-06 11:

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4704**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCL~~ Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB3-A5225	4/17/06	0700	X																								
MW2-04-A5143	4/17/06	1110	X	X	X																						
MW17-E-A5142	4/17/06	1310	X	X	X																						
MW05-A-A5208	4/17/06	1450	X																								

SAMPLED BY: Chad Simpson / Anthony Drolet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — Printed Name; Signature
Company: ITSI — Date amd Time: 4/17/06 / 1545

RECEIVED BY: GERARD ELLISON — Printed Name; Signature

RELINQUISHED BY: GERARD ELLISON — Printed Name; Signature
Company: ITSI — Date amd Time: 4/17/06 1635

RECEIVED BY: Lwanna Curtis — Printed Name; Signature

Ambient Impact

407-0343

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/17/

Well Number: M005-A

Weather: Sunny (circled), Cloudy, Rain, Windy (circled), Hot

Temperature: 68°F

Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104582	0
LEL:	9546101	0
02:	9546101	0

Measured Well Depth: 12.70' ft.

Depth to Water (DTW): 1.76' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.94' ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.75 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 1.76' ft.

Field calculated -- 1 casing vol.*: 6.75 liters

Field calculated -- 3 casing vol.*: 20.25 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	1410	1.50	.22	.3/min	15.93	0.762	7.82	294	-76	3.38	N	1.77	
10	1415	3.00	.44	.3/min	15.77	0.843	7.58	438	-77	1.66	N	1.78	
15	1420	4.50	.67	.3/min	15.67	0.906	7.51	29.2	-81	1.30	N	1.70	
20	1425	6.00	.89	.3/min	15.64	0.937	7.49	19.9	-66	1.04	N	1.78	
25	1430	7.50	1.11	.3/min	15.61	0.971	7.48	13.6	-92	0.87	N	1.79	
30	1435	9.00	1.33	.3/min	15.58	0.986	7.49	12.2	-96	0.87	N	1.79	
35	1440	10.50	1.56	.3/min	15.55	1.14	7.51	4.9	-100	0.91	N	1.80	
40	1445	12.00	1.78	.3/min	15.52	1.14	7.53	4.2	-102	0.92	N	1.81	
45	1450	13.50	2.00	.3/min	15.50	1.15	7.54	2.0	-104	0.76	N	1.81	
Previous Log readings													

Sample Date: 4/17/06 Start Time: 1405 End Time: 1450 Equipment Blank Collected: ______ Trip Blank Collected: TB3-04-A5143

Pump Collected With: Peristaltic Volatile Sample Flow Rate: 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 1.81 MS/MSD ☐

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M005-A-A5008	NS	X														X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: No Ferrous Iron Test kit

12 Bottles

Sampler: [illegible]

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: 2MW8S

Purge Date: 4.17.06

Weather: Sunny / Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		1.4
LEL:		0
02:		0.0

Measured Well Depth: 12.85 ft.
Depth to Water (DTW): 6.5 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.35 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 3.92 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 6.35 ft.
Field calculated -- 1 casing vol.*: 3.92 liters
Field calculated -- 3 casing vol.*: 11.76 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-0C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
14:30			.3	17.78	2.71	7.45	0	-171	4.77	Y	6.5	
14:35	1.5	0.38	.3	17.61	2.65	7.25	0	-174	1.52	Y	6.5	
14:40	3	0.77	.3	17.54	2.61	7.24	0	-175	1.01	Y	6.5	
14:45	4.5	1.15	.3	17.47	2.64	7.22	0	-176	0.59	Y	6.5	
14:50	6	1.53	.3	17.45	2.64	7.22	0	-176	0.48	Y	6.5	
14:55	7.5	1.91	.3	17.43	2.61	7.22	0	-175	0.34	Y	6.5	stabilized
						RC						
Previous Log readings												

Sample Date: 4.17.06 **Start Time:** 15:00 **End Time:** 15:30 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5224

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.5 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
2MW8S-A5123	NS	X	X	X	X	X	X	X		X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Acetic - Iron -

19 Bottles

Sampler: Robyn Chapple

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-17-06

Well Number: **D05-05**

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 65° **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0
02:		0.0

Measured Well Depth: 78.5 ft.

Depth to Water (DTW): 6.9 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 71.6 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ~~28.85~~ liters

Casing Radius (R): 2 inch

Verified Depth to Water: 7 RC ft.

Field calculated – 1 casing vol.*: ~~28.85~~ RC 176.97 liters

Field calculated – 3 casing vol.*: ~~86.55~~ RC 530.90 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
10:15			.3	22.12	61.7	6.96	16.4	-175	1.29	N RC	7	
10:20	1.5	0.05	.3	22.17	62.5	6.98	12.8	-205	1.14	N	7	
10:25	3	0.9	.3	22.29	62.7	6.98	12.4	-215	0.96	Y	7	
10:28	3.9	0.14	.3	22.34	62.9	6.98	13.2	-219	0.88	Y	7.05	
10:31	4.8	0.17	.3	22.22	62.9	6.90	12.3	-225	0.77	Y	7.05	stabilized
							RC					
Previous Log readings												

Sample Date: 4-17-06 **Start Time:** 10:35 **End Time:** 10:45 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5224

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.05 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D05-05-A5127	NS	X											X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 9.5

7 Bottles

Sampler: Robyn Chapple

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 5

Event: Spring2006

Well Number: **M05HW-01**

Purge Date: 4/17/06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 68 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0.0
02:		20.9

Measured Well Depth: 17.50 ft.

Depth to Water (DTW): 4.34 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 13.11 ft.

One Casing Volume=[redacted] liters

Casing Radius (R): 1 inch

Verified Depth to Water: 4.50 ft.

Field calculated -- 1 casing vol.*: 8.08 liters

Field calculated -- 3 casing vol.*: 24.26 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (mL/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
1322	0.3	0.037	300	19.29	4.58	6.88	74.1	-166	0.50	Y	4.51	Slight hydrocarbon odor
1325	1.2	0.148	300	19.04	3.40	6.85	33.2	-130	0.86	Y	4.51	
1330	2.7	0.334	300	18.83	2.27	6.83	32.1	28	2.46	Y	4.52	
1335	4.2	0.519	300	18.72	1.65	6.78	14.9	119	2.87	Y	4.52	
1340	5.7	0.705	300	18.74	1.56	6.77	8.2	133	2.67	Y	4.52	
1345	6.2	0.767	300	18.71	1.55	6.78	3.2	136	2.53	Y	4.52	
1348	7.7	0.952	300	18.71	1.56	6.78	4.5	135	2.47	Y	4.52	
Previous Log readings												

Sample Date: 4/17/06 **Start Time:** 1350 **End Time:** 1410 **Equipment Blank Collected:** NA **Trip Blank Collected:** TB1-A5223

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.50 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05HW-01-A5138 NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: Fe^{+2} = 0.0 mg/L

15 Bottles

Sampler: GEI - D

IR Site 5

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/17/06

Well Number: **M10-02**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 70 **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring:	PID:	0.0
	LEL:	0.0
	02:	20.5

Measured Well Depth: ~~GE 3.04~~ 12.72 ft.
Depth to Water (DTW): 3.04 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.68 ft.

One Casing Volume=[redacted] liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.04 ft.
Field calculated -- 1 casing vol.*: 6.15 liters
Field calculated -- 3 casing vol.*: 18.46 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ml/min)	Temp °C (+/-3%)	Conductivity (mS/cm) (+/-3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
1155	0.5	0.081	300	18.93	0.332	6.71	23.5	314	6.31	N	3.07	
1200	2.0	0.325	300	18.87	0.342	6.98	6.3	309	5.70	N	3.07	
1205	3.5	0.569	300	18.92	0.344	7.17	5.2	306	5.22	N	3.07	
1208	4.4	0.715	300	18.95	0.343	7.24	0.0	305	4.95	N	3.07	
1211	5.3	0.861	300	18.78	0.351	7.27	0.0	304	4.75	N	3.07	
1214	6.2	1.008	300	18.70	0.354	7.30	0.0	304	4.37	N	3.07	
Previous Log readings												

Sample Date: 4/17/06 **Start Time:** 1216 **End Time:** 1240 **Equipment Blank Collected:** NA **Trip Blank Collected:** TB1 - A5223

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.07 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M10-02-A5141 NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe^{++} = 0.0 mg/L

15 Bottles

Sampler: GE/BD

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 5

Event: Spring2006

Purge Date: 4/17/06

Well Number: M117-E

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 67°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0
LEL:	954/101	0
02:	954/101	0

Measured Well Depth: 18.57' ft.
Depth to Water (DTW): 3.89' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 14.68' ft.

One Casing Volume [redacted] 9.058 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.89' ft.
Field calculated -- 1 casing vol.*: 9.06 liters
Field calculated -- 3 casing vol.*: 27.18 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5'	1220	1.50	.17	.3/min	17.99	7.86	7.85	9.0	-189	4.20	Y	3.88	
10'	1225	3.00	.33	.3/min	17.86	6.49	8.02	2.8	-181	2.26	N	3.89	
15'	1230	4.50	.50	.3/min	17.73	5.79	8.10	0.0	-186	1.64	N	4.09	
20'	1235	6.00	.66	.3/min	17.70	5.75	8.14	0.0	-186	1.32	N	4.10	
25'	1240	7.50	.83	.3/min	17.72	5.80	8.19	0.0	-189	1.14	N	4.12	
30'	1245	9.00	.99	.3/min	17.73	5.88	8.20	0.0	-190	1.02	N	4.12	
35'	1250	10.50	1.16	.3/min	17.70	5.97	8.23	6.0	-191	0.92	N	4.14	
Previous Log readings													

Sample Date: 4/17/06 **Start Time:** 1215 **End Time:** 1255 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB-15225

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.09 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M117-E-A5142	NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: added Hardwire to well ferrous = 0

15 Bottles

Sampler: C. Sim / A. Baker

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 5 — **Event: Spring2006** — Purge Date: 4/17/06

Well Number: M12-04

Weather: Sunny, Cloudy, Rain, Windy, Hot — Temperature: 63° — Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0
LEL:	9546101	0
02:	" "	0

Measured Well Depth: 13.75' ft.
Depth to Water (DTW): 2.64' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.11 ft.

One Casing Volume=[redacted] 6.85 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.64' ft.
Field calculated -- 1 casing vol.*: 6.85 liters
Field calculated -- 3 casing vol.*: 20.56 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1045	1.50	.22	.3/min	17.33	1.23	6.13	26.1	237	5.20	N	2.63	
1050	3.00	.44	.3/min	17.15	1.22	6.16	19.0	218	3.38	N	2.64	
1055	4.50	.66	.3/min	17.09	1.22	6.30	0	198	3.11	N	2.64	
1100	6.00	.88	.3/min	17.09	1.24	6.41	0	169	3.06	N	2.63	
Previous Log readings												

1.56

Sample Date: 4/17/06 **Start Time:** 1040 **End Time:** 1100 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5225

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.67 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M12-04-A5143	NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sh, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous = 0

15 Bottles

Sampler: C. Simons / A. Bolek

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TBI-A5223
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 1

DATE (YYYMMDD) 2006/04/17

TIME (24 HRS) 7:00

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature:

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5224
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 2

DATE (YYYMMDD) 2006/04/17

TIME (24 HRS) 7:00

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD C

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5225
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 3

DATE (YYYMMDD) 2006/04/17

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cox

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 4/10/06 Time: 0630 Page: 1 of 1

Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11

Work Description: GROUNDWATER SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357

Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue

Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A

Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness

Minimum PPE Required: Level D

Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling

Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Brian Dee		ITSI			
Shawn Baker		ERI			
Anthony S Doriet		MACTEC			
Dennis Hill		ITSI			
Robyn Chapple	Robyn Chapple	ITSI			
Chad Simpson		Mactec			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name printed) Signature

Site Superintendent: JD LENZEN (Name printed) Signature

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/18/06
REPORT NO 206

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Site 5 completed.
	Continue with groundwater sampling at IR Site 1
	Sixteen wells sampled at IR Site 1, 60% complete

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	IR Site 5, M05-05 re-sampled and submitted to lab

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Signature: [signature] 4/18/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/18/06
FIELD ACTIVITY DAILY LOG	Report	206

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	390
Total Work Hours On Job Site From Start Of Construction	470

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Site 1
Re-sample well at IR Site 5

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: David A Ell DATE: 4/10/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4/18/06	Page 1 of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: Monitoring Well sampling

Subcontractors/Visitors:

Weather: Sun - Cool

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: Arrived on site, loaded truck for sampling - calibrated field equipment

0630: attended morning tailgate meeting

0700: Moved to site 1 and set up on well M025-A

0719: Started purge on well

0750: Collected sample M025-A-A5012

0840: Set up on well M025-C

0858: Started attempted to start purge. Had to replace the down hole tubing due to a kink in the original dedicated tubing.

0855: Started purge

0915: Collected sample, M025-C-A5013

1019: Set up and started purge on M028-A

1040: collected sample, M028-A-A5018

1111: Set-up and started purge on M028-A

1135: collected sample M028-A-A5018

1217: Set up and started purge M030-A

1240: collected sample M030-A-A5023

1300: Moved back to the office trailer

1400: Back to site 1

1425: Set up and started purge on M001-B-A5002

1445 collected sample M001-B-A5002

1530: unloaded samples and field equipment

1600: Completed daily paperwork.

1700: left - site

Prepared by:		Signature:		Date:	

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4.18.06	Page 1 of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: Ground Water Sampling

Subcontractors/Visitors: Anthony L. Dealet / Chad Simpson

Weather: Sunny

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 @ Site trailer, Calibrate meters, Gather paperwork, Load equipment & Coolers.

0630 left trailer to site 1. LEL # 95/7/35 PID 104556

0645 @ M004-A DTW = 2.32 Sample # M004-A-A5007 @ 0800

0830 @ M002-A DTW = 5.99 Sample # M002-A-A5004 @ 0905

0955 @ M003-B DTW = 8.49 Sample # M003-B-A5006 @ 1045

1130 @ M003-A DTW = 3.30' Sample # M003-A-A5005 @ 1205

1245 @ M006-A DTW = 0.95' Sample # M006-A-A5009 @ 1340

Duplicate Sample # M006-A-A5010 @ 1340

1530 To trailer to QC/Check in samples, empty 55-gallon purge water into holding tank.

Prepared by:		Signature:		Date:	4/18/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.18.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Site 1 Well Sampling			
Subcontractors/Visitors:			
Weather: Sunny			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00 - 07:00 - Tailgate safety meeting, calibration and loading of equipment and assignments

07:00 - 08:30 - Purged and sampled Well # MO34-A and field duplicate.

08:45 - 09:40 - Purged and sampled well MO27-B.

~~09:40~~ 10:30 Purged and sampled well MO27-C.
09:40

10:30 - 11:45 - Purged and sampled well MO26-A. While at this well we had a flat tire on the company truck.

11:45 - 12:00 - Unload truck

12:00 - 12:30 - lunch break

12:30 - 13:30 - Fix flat on truck and reload equipment onto truck

13:45 - 14:55 - Purged and sampled Well MO01-E.

15:00 - 15:30 - Unloading equipment.

16:00 - Offsite

Prepared by:	ROBYN CHAPPLE	Signature:	Robyn Chapple	Date:	4.18.06

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4501**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M001-B-A5002	4-15-06	1445									X						X	X	X	X	X	X	X				

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) / (Signature)
ITSI (Company)
4-18-06 1530 (Date and Time)

RECEIVED BY: (Printed Name) / (Signature)

RELINQUISHED BY: _____ (Printed Name) / _____ (Signature)
_____ (Company) / _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) / _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4502**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M001-E-A5003	4.18.06	14:40					X				X		X				X	X	X	X	X	X	X				
												RC															

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple
SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.18.06 15:00 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4504**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M003-A-A5005	4/18/06	1205					X		X	X	X		X				X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Drlet
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CHS (Signature)
I+ST (Company) 4/18/06/1530 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4506**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Stronium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M004-A-A5007	4/18/06	0900												X	X	X										X	

SAMPLED BY: C. Simpson / A. Drake
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CWS (Signature)
ITSI (Company) 4/18/06 / 0945 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4508**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M006-A-A5009	4/18/06	1340					X				X		X				X	X	X	X	X	X	X				
M006-A-A5010	4/18/06	1340					X				X		✓				✓	✓	X	X	X	X	✓				

SAMPLED BY: C. Simpson / A. Ortiz
SIGNATURE: C.S.

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) — C.S. (Signature)
ITSI (Company) — 4/19/06 / 1530 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4511**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M025-C-A5013	4-18-06	0915									X						X	X	X	X	X	X	X				

SAMPLED BY: Shawn Baker
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) [signature] (Signature)
ITSI (Company) 0952 4-18-06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) [signature] (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4512
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M026-A-A5014	4.18.06	11:10					X				X		X				X	X	X	X	X	X	X				
										RC																	

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.18.06 11:25 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4514**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M027-B-A5016	4.18.06	9:25									X						X	X	X	X	X	X	X				

RU

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE Robyn Chapple
Printed Name Signature

ITSI 4.18.06 11:00
Company Date amd Time

RECEIVED BY: Tony Rojas Tony Rojas
Printed Name Signature

RELINQUISHED BY: _____ _____
Printed Name Signature

_____ _____
Company Date amd Time

RECEIVED BY: _____ _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4515**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M027-C-A5017	4-18-06	10:05									X						X	X	X	X	X	X	X				

RC

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE Robyn Chapple
Printed Name Signature

ITSI 4-18-06 11:00
Company Date amd Time

RECEIVED BY: Tony Rojas Tony Rojas
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature

_____
Company Date amd Time

RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4516**
Page: 1 of 2

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M028-A-A5018	4-18-06	1040							X		X						X	X	X	X	X	X	X				

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) _____ (Signature)
ITSI (Company) 4-18-06 1351 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) _____ (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4519**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M029-A-A5022	4-18-06	1135					X				X		X				X	X	X	X	X	X	X				

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) (Signature)
ITSI (Company) 4-18-06 1351 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4520**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M030-A-A5023	4-18-06	1240					X		X	X	X		X				X	Y	X	X	X	X	X				

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) — (Signature)
ITSI (Company) — 4-18-06 1350 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

RELINQUISHED BY: (Printed Name) — (Signature)
(Company) — (Date and Time)

RECEIVED BY: (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4526**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M034-A-A5029	4.18.06	7:40					X				X		X				X	X	X	X	X	X	X				
M034-A-A5030	4.18.06	7:50					X				X		X				X	X	X	X	X	X	X				

RL

SAMPLED BY: Robyn Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.18.06 11:00 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4619**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M05-05-A5133*	4/18/06	1410				X					X	X		X	X	X											

SAMPLED BY: GERARD ELLISON
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: GERARD ELLISON [signature]
Printed Name Signature
ITSI 4/18/06 1530
Company Date and Time

RECEIVED BY: Tony Rojas [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
_____
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4705**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB1-A5226	04/18/06	700	X																								
M025A-A5012	4/18/06	0750	X																								
M025-A-A5013	4/18/06	0915	X																								
~~M028-A-A5018~~	4/18		BPB																								
M029-A-A5022	4/18/06	1135	X																								
M030-A-A5023	4/18/06	1240	X																								
M001-B-A5002	4/18/06	1445	X																								

SAMPLED BY:
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Lee (Printed Name) — (Signature)
ITSI (Company) — 4/18/06 1600 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) — (Signature)
_____ (Company) — (Date and Time)
RECEIVED BY: _____ (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4706**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5227	04/18/06	700	X																								
M034-A-A5029	4.18.06	7.40	X																								
M034-A-A5030	4.18.06	7.50	X																								
M027-B-A5016	4.18.06	9:25	X																								
M027-C-A5017	4.18.06	10.05	X																								
M026-A-A5014	4.18.06	11:10	X																								
M001-E-A5034	4.18.06	14.40	X																								
M05-05-A5133	4/18/06	1410	X	X	X																						

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.18.06 15:00 (Date and Time)

RECEIVED BY: Tony Kogas (Printed Name) Tony Kogas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4707**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	HCl Ueptes	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB3-A5228	04/18/06	700	X																								
MW04-A-A5007	4/18/06	0660		X																							
MW02-A-A5004	4/18/06	0905	X																								
MW03-B-A5006	4/18/06	1045	X	X																							
MW03-A-A5005	4/18/06	1205	X																								
MW06-A-A5009	4/18/06	1340	X																								
MW06-A-A5010	4/18/06	1340	X																								

SAMPLED BY: C. Simpson / A. Drilet
SIGNATURE: CW

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chas. Simpson (Printed Name) CW (Signature)
I+SI (Company) 4/18/06 / 1530 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Purge Date: 4-18-06

Well Number: **M001-B**

Weather: (Sunny) Cloudy, Rain, Windy, Hot **Temperature:** 58 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	995049	00
02:	995049	20.7

Measured Well Depth: 72.05 ft.

Depth to Water (DTW): 6.75 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 65.3 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 40.29 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 6.75 ft.

Field calculated -- 1 casing vol.*: 40.29 liters

Field calculated -- 3 casing vol.*: 120.87 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1425	0.0	0.0	300 ml/m	19.18	40.2	6.94	110.0	172	5.91	N	6.75	
1428	0.9	.022		18.45	40.5	6.91	120.0	0	1.16	N	6.75	
1431	1.8	.044		18.30	41.6	6.87	330.0	-46	.25	N	6.71	
1434	2.7	.067		18.29	41.5	6.87	100.0	-54	.16	N	6.70	
1437	3.6	.089		18.28	41.2	6.87	9.8	-51	.11	N	6.65	
Previous Log readings												

Sample Date: 4-18-06 **Start Time:** 1445 **End Time:** 1500 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB-A5226

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.41 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M001-B-A5002 NS	X								X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Purge Date: 4.18.06

Well Number: **M001-E**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.4
LEL:		0.13%
02:		0

Measured Well Depth: 19.22 ft.
Depth to Water (DTW): 3.95 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 15.27 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 9.42 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.95 ft.
Field calculated -- 1 casing vol.*: 9.42 liters
Field calculated -- 3 casing vol.*: 28.26 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
13:52			.4	19.41	14.9	8.08	0	-229	2.92	N	4.35	
13:57	2	0.21	.4	19.03	5.12	8.73	98.6	-261	0.60	N	4.42	
14:03	4	0.42	.4	18.98	3.96	8.77	97.4	-261	0.54	N	4.46	
14:08	6	0.64	.4	18.99	3.54	8.79	75.0	-264	0.31	N	4.46	
14:13	8	0.85	.4	19.00	3.45	8.81	83.4	-266	0.22	N	4.49	
14:18	10	1.06	.4	18.99	3.35	8.81	95.4	-267	0.16	N	4.50	
14:21	12	1.27	.4	18.95	3.32	8.80	67.8	-268	0.14	N	4.50	Stabilized
									RC			
Previous Log readings												

Sample Date: 4.18.06 **Start Time:** 14:40 **End Time:** 14:55 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5227

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.50 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M001-E-A5003 NS	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments

15 Bottles

Sampler: Roby Chapple

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Purge Date: 4/18/06

Well Number: **M003-A**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 70 Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104558	0
LEL:	9517135	0
02:	9517135	0

Measured Well Depth: 13.60' ft.

Depth to Water (DTW): 3.30' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.30 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.35 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 3.30' ft.

Field calculated -- 1 casing vol.*: 6.35 liters

Field calculated -- 3 casing vol.*: 19 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1140	1.50	.24	.3l/min	16.07	0.91	7.76	82.6	-1	4.47	N	3.30	
1145	3.0	.47	.3/min	16.05	0.773	7.33	24.2	28	2.68	N	3:30	
1150	4.5	.71	.3/min	16.01	0.769	7.23	0	44	2.20	N	3.32	
1155	6.0	.94	.3/min	16.03	0.767	7.20	0	49	2.05	N	3.35	
1200	7.5	1.18	.3/min	16.03	0.765	7.15	0	56	1.95	N	3.35	
Previous Log readings												

Sample Date: 4/18/06 **Start Time:** 1135 **End Time:** 1205 **Equipment Blank Collected:** ____ **Trip Blank Collected:** TB3-A5228

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.37 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M003-A-A5005 NS	X				X		X	X	X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

17 Bottles

Comments:

Sampler: [signature]

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Page 7

Well Number: **M004-A**

Purge Date: 4/18/06

Weather: Sunny, Cloudy, Rain, Windy, Hot (Sunny and Windy circled) Temperature: 55°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	10558	0
LEL:	9517135	0
02:	9517135	0

Measured Well Depth: 13.30' ft.

Depth to Water (DTW): 2.32' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.98' ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.78 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 2.32' ft.

Field calculated -- 1 casing vol.*: 6.78 liters

Field calculated -- 3 casing vol.*: 20.325 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0	0725	.3	.04	.3/min	15.93	0.722	6.11	0	182	6.03	N	2.66	
3	0728	.90	.13	.3/min	15.85	0.711	6.34	0	174	5.45	N	2.68	
6	0731	1.80	.27	.3/min	15.84	0.709	6.45	0	169	5.18	N	2.68	
11	0736	3.30	.49	.3/min	15.79	0.710	6.63	0	162	4.54	N	2.68	
16	0741	4.80	.71	.3/min	15.78	0.711	6.77	0	156	4.05	N	2.69	
21	0746	6.30	.93	.3/min	15.81	0.708	6.87	0	151	3.58	N	2.70	
26	0751	7.80	1.15	.3/min	15.83	0.704	6.95	0	146	3.28	N	2.71	
31	0756	9.30	1.37	.3/min	15.83	0.705	6.89	0	140	3.30	N	2.71	
Previous Log readings													

Sample Date: 4/18/06 Start Time: 0725 End Time: 0800 Equipment Blank Collected: NA Trip Blank Collected: TB3-A5228

Pump Collected With: Peristaltic Volatile Sample Flow Rate: 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water: 2.80 MS/MSD ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO3	HNO3	NA	HNO3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M004-A-A5007 NS		X										X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: Ferrous Iron = 0 **7 Bottles** Sampler: C. Si[illegible] / A. Nolet

1.90 .832 (.021) 4.44 5.44 6.24

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Purge Date: 4/18/06

Well Number: **M006-A**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 70 Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104556	0
LEL:	9517135	0
02:	9517135	0

Measured Well Depth: 13.80' ft.

Depth to Water (DTW): 0.95' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 12.85 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.9 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 0.95' ft.

Field calculated -- 1 casing vol.*: 7.9 liters

Field calculated -- 3 casing vol.*: 23.9 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	1255	1.50	.19	.3/min	16.45	0.655	7.23	69.8	41	3.70	N	1.02	
10	1300	3.00	.38	.3/min	16.37	0.659	7.05	51.8	44	2.05	N	1.03	
15	1305	4.50	.57	.3/min	16.34	0.671	7.00	26.7	33	1.52	N	1.03	
	1310	6.00	.76	.3/min	16.32	0.681	6.98	4.1	23	1.24	N	1.05	
	1315	7.50	.95	.3/min	16.29	0.696	6.97	0	13	1.06	N	1.05	
	1320	9.00	1.14	.3/min	16.30	0.702	6.97	0	10	0.96	N	1.05	
	1325	11.50	1.46	.3/min	16.29	0.715	6.96	0.2	4	0.82	N	1.06	
Previous Log readings													

Sample Date: 4/18/06 **Start Time:** 1250 **End Time:** 1340

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non-disposable reusable equipment) is used

Trip Blank Collected: TB3-A5228 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 1.10 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M006-A-A5009	NS	X				X				X		X				X	X	X	X	X	X	X			
M006-A-A5010	FD	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

30 Bottles

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-18-06

Well Number: **M025-C**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 55 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	20.9

Measured Well Depth: 76.90 ft.
Depth to Water (DTW): 3.11 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 73.79 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 45.52 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 76.90 ft.
Field calculated – 1 casing vol.*: 45.52 liters
Field calculated -- 3 casing vol.*: 136.56 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0855	0.0	0.0	300mL/M	17.26	7.71	6.81	58.6	-95	1.67	N	3.45	
0858	0.9	.01		17.66	7.66	6.80	110.0	-157	.64	N	3.45	
0901	1.8	.03		17.77	7.64	6.82	136.0	-173	.40	N	3.44	
0904	2.7	.05		17.80	7.62	6.82	316.0	-179	.31	N	3.44	
0907	3.6	.07		17.82	7.60	6.83	542.0	-183	.29	N	3.45	
Previous Log readings												

Sample Date: 4-18-06 **Start Time:** 0915 **End Time:** 0940 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1 A5226

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.41 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M025-C-A5013	NS	X								X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: well lid split in half

13 Bottles

Sampler: Sha Baker

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.18.06

Well Number: **M026-A**

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:	/	0
02:		0.0

Measured Well Depth: ~~14.0~~ 14.0 ft.
Depth to Water (DTW): ~~5.75~~ 5.75 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): ~~8.25~~ 8.25 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ~~4.90~~ 5.09 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 6.05 ft.
Field calculated -- 1 casing vol.*: ~~4.90~~ 5.09 liters
Field calculated -- 3 casing vol.*: ~~14.7~~ 15.27 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
10:38	0	0	.4	16.61	6.62	7.72	37.7	-71	3.69	~~Y~~ N	~~6.05~~ 5.80	
10:43	2	0.39	.4	~~0.40~~ 16.27	3.45	7.61	27.6	-51	1.83	N	5.80	
10:48	4	0.79	.4	16.20	3.04	7.57	23.7	-41	0.99	N	5.80	
10:53	6	1.18	.4	16.16	2.84	7.56	21.0	-39	0.60	N	5.82	
10:58	8	1.57	.4	16.13	2.76	7.54	17.3	-46	0.48	N	5.82	
11:03	10	1.96	.4	16.13	2.72	7.53	17.4	-51	0.40	N	5.83	stabilized
						RC						
Previous Log readings												

Sample Date: 4.18.06 **Start Time:** 11:10 **End Time:** 11:35 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5227

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.83 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M026-A-A5014	NS	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.18.06

Well Number: **M027-B**

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		0
LEL:		0
02:		0

Measured Well Depth: 66.0 ft.
Depth to Water (DTW): 5.4 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 60.6 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 37.39 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.4 ft.
Field calculated -- 1 casing vol.*: 37.39 liters
Field calculated -- 3 casing vol.*: 112.17 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
8:50			.3	18.57	4.27	7.9	14.0	53	8.99	N	5.5	
8:55	1.5	0.04	.3	18.92	26.8	7.23	52.8	-195	3.80	N	5.5	
9:00	3	0.08	.3	18.90	26.7	7.20	34.5	-182	1.18	N	5.5	
9:05	4.5	0.12	.3	18.91	26.4	7.19	21.7	-177	0.85	N	5.5	
9:10	6	0.16	.3	18.88	26.2	7.19	16.5	-172	0.75	N	5.5	
9:15	7.5	0.20	.3	18.87	26.2	7.18	13.1	-167	0.55	N	5.5	Stabilized
						RC						
Previous Log readings												

Sample Date: 4.18.06 **Start Time:** 9:20 9:25 **End Time:** 9:35

Equipment Blank Collected: N/A
1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB2-A5227
Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 5.5 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M027-B-A5016 NS	X								X					—	X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu. Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment:

1 Bottles

Sampler: Rol Chapple

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.18.06

Well Number: **M027-C**

Weather: (Sunny) Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 87.0 ft.
Depth to Water (DTW): 7.85 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 82.15 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 50.69 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 7.85 ft.
Field calculated -- 1 casing vol.*: 50.69 liters
Field calculated -- 3 casing vol.*: 152.07 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
9:40			.3	18.84	35.6	7.43	22.9	-107	4.63	N	5.0	
9:45	1.5	0.03	.3	18.81	35.5	7.41	24.3	-196	1.17	N	5.0	
9:50	3	0.06	.3	18.73	35.8	7.26	16.3	-183	0.87	N	5.0	
9:55	4.5	0.09	.3	18.73	35.8	7.21	13.0	-169	0.78	N	5.0	
10:00	6	0.12	.3	18.70	35.8	7.19	12.2	-159	0.48	N	5.0	
							RC					
Previous Log readings												

Sample Date: 4.18.06 **Start Time:** 10:05 **End Time:** 10:20 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5227

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.0 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M027-C-A5017	NS	X								X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

12 Bottles

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-18-06

Well Number: **M028-A**

Weather: (Sunny) Cloudy, Rain, Windy, Hot **Temperature:** 060 **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	20.8

Measured Well Depth: 14.01 ft.
Depth to Water (DTW): 4.49 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.52 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.87 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.49 ft.
Field calculated -- 1 casing vol.*: 5.87 liters
Field calculated -- 3 casing vol.*: 17.61 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1019	0.0	0.0	300mL/m	15.93	1.17	7.03	0.0	59	1.44	N	4.61	
1022	0.9	.15		15.73	1.15	6.86	0.0	-35	.28	N	4.63	
1025	1.8	.30		15.63	1.13	6.81	0.0	-53	.11	N	4.64	
1028	2.7	.45		15.59	1.13	6.81	0.0	-57	.10	N	4.64	
1031	3.6	.61	↓	15.61	1.12	6.80	0.0	-61	.06	N	4.64	
Previous Log readings												

Sample Date: 4-18-06 **Start Time:** 1040 **End Time:** 1054 **Equipment Blank Collected:** N **Trip Blank Collected:** TBL A5226

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.54 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M028-A-A5018	NS							X		X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: **11 Bottles** Sampler: Shan[illegible]ker

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Purge Date: 4-18-06

Well Number: **M029-A**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 60° Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	20.9

Measured Well Depth: 14.01 ft.
Depth to Water (DTW): 3.95 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.06 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.20 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.95 ft.
Field calculated -- 1 casing vol.*: 6.20 liters
Field calculated -- 3 casing vol.*: 18.6 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1111	0.0	0.0	300 ml/min	16.51	1.04	7.34	84.3	55	2.27	N	4.05	
1114	0.9	.14		16.25	1.04	7.37	46.7	-128	.37	N	4.05	
1117	1.8	.29		16.25	1.05	7.43	32.0	-176	.14	N	4.05	
1120	2.7	.43		16.26	1.07	7.50	15.9	-201	.07	N	4.05	
1123	3.6	.58		16.26	1.07	7.53	15.7	-207	.05	N	4.05	
1126	4.5	.72		16.29	1.07	7.59	15.7	-221	.03	N	4.05	
Previous Log readings												

Sample Date: 4-18-06 **Start Time:** 1135 **End Time:** 1150 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1 A5226

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.0 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M029-A-A5022	NS	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M030-A**

Purge Date: 4-18-06

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 60 °F **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	20.9

Measured Well Depth: 12.35 ft.

Depth to Water (DTW): 1.16 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.19 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.90 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 1.16 ft.

Field calculated -- 1 casing vol.*: 6.90 liters

Field calculated -- 3 casing vol.*: 20.70 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1217	0.0	0.0	300ML/M	16.13	.378	7.22	76.8	181	2.93	N	2.05	
1220	1.5	.21		15.85	.375	6.84	89.4	184	1.09	N	2.04	
1223	3.0	.43		15.75	.374	6.72	64.3	185	.86	N	2.04	
1226	4.5	.65		15.66	.377	6.40	20.4	186	.52	N	2.04	
1229	6.0	.86		15.68	.377	6.36	13.1	186	.48	N	2.04	
1232	7.5	1.08		15.66	.377	6.32	3.9	185	.43	N	2.04	
~~1235~~												
Previous Log readings												

Sample Date: 4-18-06 **Start Time:** 1240 **End Time:** 1310 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1A5226

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.01 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M030-A-A5023	NS	X				X		X	X	X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment

17 Bottles

Sampler: Sh Baker

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Purge Date: 4.18.06

Well Number: **M034-A**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 50 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	/	0
LEL:		0
02:	/	0

Measured Well Depth: 12.40 ft.
Depth to Water (DTW): 2.25 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.15 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.26 liters
Casing Radius (R): 1 inch
Verified Depth to Water: ~~10.40~~ 2.25 ft.
Field calculated -- 1 casing vol.*: 6.26 liters
Field calculated -- 3 casing vol.*: 18.78 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:15			.3	17.01	.401	6.72	3.3	-94	3.23	N	2.4	
7:20	1.5	0.24	.3	17.14	.397	7.01	0	-129	1.51	N	2.4	
7:25	3	0.48	.3	17.15	.400	7.06	12.3	-140	0.55	N	2.4	
7:30	4.5	0.72	.3	17.16	.400	7.09	13.7	-142	0.48	N	2.4	
7:35	6	0.96	.3	17.14	.406	7.09	12.8	-145	0.38	N	2.4	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.18.06 **Start Time:** 7:40 **End Time:** 8:25 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5227

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.4 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M034-A-A5029 NS 7:40	X				X				X		X				X	X	X	X	X	X	X			
M034-A-A5030 FD 7:50	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

30 Bottles

Robyn Chenoll

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 5

Event: Spring2006

Purge Date: 4/18/06

Well Number: **M05-05**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 65 **Sample Team:** ☐ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0.0
02:		20.9

Measured Well Depth: 16.45 ft.
Depth to Water (DTW): 4.11 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 12.34 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.614 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.12 ft.
Field calculated -- 1 casing vol.*: 7.614 liters
Field calculated -- 3 casing vol.*: 22.84 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			ml (ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1340	0.5	0.065	300	15.5	0.520	5.22	53.4	176	13.12	N	4.62	
1345	2.0	0.262	300	15.5	0.511	5.41	35.5	185	11.05	N	4.49	
1349	2.9	0.380	300	15.5	0.516	5.66	30.4	196	10.25	N	4.44	
1351	3.8	0.499	300	15.5	0.520	5.81	24.5	203	10.17	N	4.44	
1354	4.7	0.617	300	15.5	0.524	5.13	23.8	207	10.11	N	4.43	
1357	5.6	0.735	300	15.4	0.537	6.04	25.0	211	10.07	N	4.43	
1400	6.5	0.853	300	15.4	0.541	6.10	20.6	213	10.33	N	4.43	
1403	7.4	0.971	300	15.4	0.549	6.18	4.3	215	10.22	N	4.44	
Previous Log readings												

Sample Date: 4/18/06 **Start Time:** 1410 **End Time:** 1430 **Equipment Blank Collected:** NA **Trip Blank Collected:** TB2-A5227

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.42 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M05-05-A5133 NS	X	X	X	X					X*	X		X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

15 Bottles

Sampler: GE

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TBI-A5226
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYMMDD) 2006/04/18 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. Cay

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5227
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYYMMDD) 2006/04/18 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☒ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature:

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5227
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 3

DATE (YYYMMDD) 2006/04/18

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. C

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 04/19/06 Time: 600 Page: 1 of 1
Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11
Work Description: GROUNDWATER SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357
Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue
Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A
Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling
Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Brian Dee		ITSI			
[illegible]		MACTEC			
Anthony Drolet		MACTEC			
Shawn Baker		ERI			
ROBYN CHAPPLE	Robyn Chapple	ITSI			
Dennis Hill		ITSI			
Kimberly Tom		ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name printed) Signature
Site Superintendent: JD LENZEN (Name printed) Signature

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/19/06
REPORT NO 207

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 1 & 2
	IR Site 1 is 85% complete. 3 wells require re-sampling and 1 well is flooded
	IR Site 2 is 11% complete. No re-samples or unavailable wells to date.
	Base-wide groundwater sampling is 25% complete

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	Re-sample M002-A, M003-B & M025-A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE — DATE 4/19/06

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER — DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/19/06
FIELD ACTIVITY DAILY LOG	Report	207

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	5	Shawn Baker	Field Tech	10
Kimberly Tom	Field Tech	5			

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	470
Total Work Hours On Job Site From Start Of Construction	550

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 1 and 2
Fifteen total wells were sampled from the two sites.
Kimberly Tom arrived at lunch time to relieve Robyn Chapple who had a scheduled DHS Lead test.

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: *Cold, overcast, rainy*

SIGNATURE: Russell A. Ell DATE: 4/19/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4.19.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: Site 1 & 2 well sampling

Subcontractors/Visitors:

Weather: Sunny

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00 - 07:00 - Tailgate safety meeting, loading of equipment (& calibration) and assignments for this morning.
07:00 - 08:00 - Purging and sampling of well M032-A.
08:10 - 09:40 - Purged and sampled well MB28-C and field duplicate.
09:45 - 10:45 - Purged and sampled well M098-E.
~~11:00 - R.C. Off site~~ RC
11:00 - 11:30 Lunch
11:30 - Turned over to Kimberly & Dennis.
1240 Arrive at M103-A and started purging & sampling
1515 Started packing up and return to trailer
1530 Arrive back at trailer

Prepared by:	Robyn Chapple / D. Hill.	Signature:	Robyn Chapple	Date:	4.19.06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4/19/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: Monitor well sampling

Subcontractors/Visitors:

Weather: Sun, Cool

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: arrived on site, loaded trucks with equipment calibrated field meters.
0630: attended morning tailgate meeting
0700: Mobed to site 1, set up on well
0729: Started purge on M031-C-~~A502~~
0750: collected sample M031-C-A5026
0812: Set up & started purge on M031-A
0840: collected sample M831-A-A5023
0~~945~~: delivered samples to the field office (BPD)
1018: started purge on M001-A-~~A5001~~
1040: Collected sample M001-A-A5001
1100: attempted to locate well M010A
1120: Set up at well M010A
1133: Started purge on M010A-
1155: Collected sample M010-A-~~8~~033
1230: Set up and started purge M013-C
1255: Collected sample M013-C-A5039
1305: Collected duplicate sample M013-C-A5040.
1411: Started purge on M012-B
1435: Collected sample M012-B-A5037
1500: cleaned up site, mobed back to the field office, unloaded samples and field equipment.
1600: completed paper work and daily field log.

Prepared by:		Signature:		Date:	4/19/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4/19/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: GW Sampling			
Subcontractors/Visitors: ITSI			
Weather: Clear - light Breeze			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 Arrive at ITSI Trailer
0615 H/S Briefing, Calibrate U-22 and PID meters
0700 @ M030-C
DTW = 6.16'
0810 Sampled well # M030-C-A5024

0900 @ M033-A
DTW = 3.64'
0930 Sampled well # M033-A-A5028

1030 @ M027-A
DTW = 3.59'
1110 Sampled well # M027-A-A5015 MS/MSD

1235 lunch

1305 @ M035-A
DTW = 4.61'
1350 Sampled well # M035-A-A5031

1515 @ Trailer to QC/Check in samples.
1530 Emptied purge water into holding tank

Prepared by:	Chad Simpson	Signature:		Date:	4/19/06

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4500**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M001-A-A5001	4/19/06	1040									X		X														

SAMPLED BY:
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) — Signature
ITSI (Company) — 4/19/06 (Date and Time)

RECEIVED BY: AARON GRONTER (Printed Name) — Signature

RELINQUISHED BY: _____ (Printed Name) — Signature
_____ (Company) — Date and Time

RECEIVED BY: _____ (Printed Name) — Signature

Innovative Technical Solutions, Inc.
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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4513**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			9	6	2	2	3	6 (10)	3	3	2	2 (10)	3 2	3 2	3 2 (10)	3 2	2	4	2	2	2	2	2	1	1	2	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M027-A-A5015	4/19/06	1110					X		X	X	X		X	X	X	X	X	X	X	X	X	X	X			X	MS/MSD

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: Chad Simpson

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) — Signature
ITSI — Company
4/19/06 / 1230 — Date and Time

RECEIVED BY: GERARD Ellison (Printed Name) — Signature

RELINQUISHED BY: GERARD Ellison (Printed Name) — Signature
ITSI — Company
4/19/06 1735 — Date and Time

RECEIVED BY: Lavanna Curtis (Printed Name) — Signature

4-19-06
5:30

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4517**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M028-C-A5019	4.19.06	~~8:50~~ GC									X			X	X	X	X	X	X	X	X	X	X			X	0905
M028-C-A5020	4.19.06	~~1:05~~ GC									X			X	X	X	X	X	X	X	X	X	X			X	0850
												RC															

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.19.06 11:00 (Date and Time)

RECEIVED BY: AARON GREUNER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4518**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M028-E-A5021	4.19.06	10:10					X		X	X	X		X	X	X	X	X	X	X	X	X	X	X			X	

RC

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.19.06 11:00 (Date and Time)
RECEIVED BY: AARON GREVIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4521**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M030-C-A5024	4/19/06	0810									X	~~TGC~~					X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Dodet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ~~Terrell~~ Burson — Printed Name — Signature
ITSI — Company
4/19/06 1620 — Date amd Time

RECEIVED BY: Lavanna Curtis — Printed Name — Signature
C&T — Company
4/19/06 1620 — Date amd Time

RELINQUISHED BY: — Printed Name — Signature
Company — Date amd Time

RECEIVED BY: — Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4522**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
~~M031-A-5036~~ M081-A-A6025	4/19/06	0840					X				X		X				X	X	X	X	X	X	X				

SAMPLED BY: BB/GB
SIGNATURE: Brian P. Bee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian P. Bee (Printed Name) — Brian P. Bee (Signature)
ITSI (Company) — 9/19/06 0930 (Date and Time)

RECEIVED BY: GERARD B. ELLISON (Printed Name) — (Signature)

RELINQUISHED BY: G Ellison (Printed Name) — (Signature)
ITSI (Company) — 4/19/06 1450 (Date and Time)

RECEIVED BY: AARON CRENTER (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4523**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Perrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M031-C-A5026	4/19/06	0750									X						X	X	X	X	X	X	X				

SAMPLED BY: GS/SS
SIGNATURE: Brian P. See

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian P. See — Brian P. See
Printed Name — Signature
ITSI — 4/19/06 0930
Company — Date and Time

RECEIVED BY: GERARD Ellison — [signature]
Printed Name — Signature

RELINQUISHED BY: G Ellison — [signature]
Printed Name — Signature
ITSI — 4/19/06 1450
Company — Date and Time

RECEIVED BY: AARON GRENIER — [signature]
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4524**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M032-A-A5027	4.19.06	7:25					X				X		X				X	X	X	X	X	X	X				
													RC														

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.19.06 11:00 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4525**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M033-A-A5028	4/19/06	0930					X				X		X	X	X	X	X	X	X	X	X	X	X			X	

SAMPLED BY: C Simpson / A. Dolat
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: G Ellison (Printed Name) — (Signature)
ITSI (Company) — 4/19/06 1600 (Date and Time)

RECEIVED BY: Lavanna Lobo (Printed Name) — (Signature)

RELINQUISHED BY: (Printed Name) — (Signature)
(Company) — (Date amd Time)

RECEIVED BY: (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4527**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M035-A-A5031	4/19/06	1350					X				X		X				X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Dalet
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: GERARD Bunson [signature]
Printed Name Signature
ITSI 4/19/06 1620
Company Date and Time

RECEIVED BY: Lasanna Curtis [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
_____
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

CTT 4-19-06 5:30

Received Ambient Contact

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(925) 946-3100 (Tel)
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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4532
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M012-A-A5036	4/19/06	1440				X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X			X	

SAMPLED BY: Kimberly Tan / Dennis Hill
SIGNATURE: Kimberly Tan

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Kimberly Tan (Printed Name) — Kimberly Tan (Signature)
TTSI (Company) — 4/19/06 1440 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4533**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M012-B-A5037	4/19/06	1435				X	X	X			X			X	X	X	X	X	X	X	X	X	X			X	

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) _____ (Signature)
ITSI (Company) 4-19-06 1545 (Date and Time)

RECEIVED BY: Lovanna Curtis (Printed Name) _____ (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

4-19-06 C+T 5:20

Ambient Intact

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4534**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M013-A-A5038	4/19/06	1315			~~X~~ 16	X	X	X	X	X	X						X	X	X	X	X	X	X				

SAMPLED BY: Kimberly Tan
SIGNATURE: Kimberly Tan

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Kimberly Tan (Printed Name) Kimberly Tan (Signature)
ITSI (Company) 4/19/06 1315 (Date amd Time)

RECEIVED BY: Lavanna Curtis (Printed Name) 4-19-06 5:30 (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4535**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M013-C-A5039	4/19/06	1255				X	X	X			X						X	X	X	X	X	X	X				
M013-C-A5040	4/19/06	1305				X	X	X			X						X	X	X	X	X	X	X				

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) / (Signature)
ITSI (Company)
4/19-06 1541 (Date and Time)

RECEIVED BY: (Printed Name) / (Signature)

RELINQUISHED BY: (Printed Name) / (Signature)
(Company)
(Date and Time)

RECEIVED BY: (Printed Name) / (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4708**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB1-A5229	04/19/06	700	X																								
M031-C-A5026	4/19/06	850	X																								
M031-A-A5025	4/19/06	0840	X																								
M010-A-A5033	4/19/06	1155	X																								
M013-C-A5039	4/19/06	1255	X		X																						
M013-C-A5040	4/19/06	~~1305~~ 1306	X		X																						1305
M012-B-A5037	4/19/06	1435	X		X																						TPH-P

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:
M012-B-A5037 RUN TPH-P

RELINQUISHED BY: Shawn Baker (Printed Name) (Signature)
1751 (Company) 4-19-06 1542 (Date and Time)

RECEIVED BY: LaVonna Curtis (Printed Name) (Signature)
C+T (Company) 4-19-06 (Date and Time)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4709**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume).
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5230	04/19/06	700	X																								
MW32-A-A5027	4-19-06	7:25	X																								
MW28-C-A5019	4-19-06	8:30	X	X																							
MW28-C-A5020	4-19-06	9:05	X	X																							
MW28-E-A5028	4-19-06	10:10	X	X	X																						
MW3-A-A5038	4-19-06	1315	X	X	X																						
MW12-A-A5036	4-19-06	1440	X		X																						

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Kimberly Tan — Kimberly Tan
Printed Name — Signature
ITSI — 4/19/06 1600
Company — Date and Time

RECEIVED BY: Lorraine Curtis — [signature]
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature
_____ — _____
Company — Date amd Time

RECEIVED BY: _____ — _____
Printed Name — Signature

C+T 4-19-06 5:30

Integrated Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4710**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Hdl Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB3-A5231	04/19/06	700	X																								
MW30-C-A5024	4/19/06	0810	X																								
MW33-A-A5028	4/19/06	0930	X	X																							
MW27-A-A5015	4/19/06	1110	X	X																							MS/MSD
MW35-A-A5031	4/19/06	1350	X																								

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: GERARD Emerson — Printed Name — Signature
ITSI — Company — 4/19/06 1630 — Date amd Time

RELINQUISHED BY: — Printed Name — Signature
Company — Date amd Time

RECEIVED BY: Lawanna Curtis — Printed Name — Signature

RECEIVED BY: — Printed Name — Signature

C+T 4-19-06 5:30

Received Cool Ice Ambient Intact

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M001-A**

Purge Date: 4-19-06

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 60° **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	29.0

Measured Well Depth: 14.03 ft.
Depth to Water (DTW): 2.85 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.18 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: _____ liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.85 ft.
Field calculated -- 1 casing vol.*: BPD ~~1.8~~ 6.8 liters
Field calculated -- 3 casing vol.*: BPD ~~5.5~~ 20.4 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
1017	0.0	0.0	300 ml/m	16.7	~~.974~~	7.35	33.4	16	3.35	N	2.86	
1020	0.9	0.33		17.4	.973	7.32	25.7	-1	4.25	N	2.87	
1023	1.8	0.26		16.9	.970	7.40	19.2	-3	3.57	N	2.87	
1026	2.7	0.39		16.6	.969	7.48	10.5	2	3.43	N	2.88	
1029	3.6	0.52	↓	16.6	.969	7.51	7.1	9	3.37	N	2.88	
Previous Log readings												

Sample Date: 4-19-06 **Start Time:** 1040 **End Time:** 1095

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB1 A5229 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 2.87 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M001-A-A5001 NS									X		X													

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: _____

2 Bottles

Sampler: Sha Baker

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/19/06

Well Number: **M027-A**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 67°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104577	0
LEL:	9546101	0
02:	9546101	0

Measured Well Depth: 13.28 ft.
Depth to Water (DTW): 3.59' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.69' ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.9 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.59 ft.
Field calculated -- 1 casing vol.*: 5.9 liters
Field calculated -- 3 casing vol.*: 17.9 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	1035	1.5	.25	.3/min	17.38	1.78	7.28	22.7	17	2.53	N	3.61	
10	1040	3.0	.51	.3/min	17.29	1.74	7.19	0	0.1	1.85	N	3.62	
15	1045	4.5	.76	.3/min	17.23	1.73	7.17	0	28	1.56	N	3.64	
	1050	6.0	1.02	.3/min	16.80	1.71	7.15	0	30	1.41	N	3.65	
	1055	7.5	1.27	.3/min	16.69	1.71	7.13	3.7	34	1.15	N	3.67	
	1100	9.0	1.53	.3/min	16.95	1.72	7.12	3.5	34	1.04	N	3.67	
	1105	11.5	1.95	.3/min	16.93	1.72	7.12	17	34	1.06	N	3.65	
Previous Log readings													

Sample Date: 4/19/06 **Start Time:** 1110 **End Time:** 1225 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5231

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.69 **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	9	6	2	2	3	2	3	3	3 (2)	2	2	2	2	2	2	4	2	2	2	2	2	1	2 (10)	2
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M027-A-A5015 NS	X	X			X		X	X	X		X	X	X	X	X	X	X	X	X	X	X		X	X
MS/MSD																								

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

24 Bottles

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-19-06

Well Number: **M028-C**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 55 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring:	Meter ID#	Results
	PID:	0.0
	LEL:	0
	02:	0.0

Measured Well Depth: ~~14.10~~ RC 84.30 ft.

Depth to Water (DTW): ~~4.55~~ RC 6.64 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.57 ~~77.66~~ ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ~~25.90~~ RC liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: ~~4.55~~ RC 6.64 ft.

Field calculated -- 1 casing vol.*: ~~5.90~~ RC 107.89 liters

Field calculated -- 3 casing vol.*: ~~17.7~~ RC 323.67 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/-3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
~~8:20~~			.4	~~16.85~~	~~0.779~~	~~7.33~~	0	~~-42~~	~~3.92~~	N	~~4.65~~ RC	
8:30			.4	18.34	48.4	7.49	0	-69	4.30	N	7.20	
8:35	2	0.02	.4	18.54	48.9	7.49	0	-187	0.18	N	7.39	
8:40	4	0.04	.4	18.49	48.9	7.40	0	-187	0.00	N	7.45	
8:45	6	0.06	.4	18.53	48.8	7.38	0	-182	0.00	N	7.45	Stabilized
						RC						
Previous Log readings												

Sample Date: 4-19-06 **Start Time:** 8:50 **End Time:** 9:37 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB-A5230

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.45 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M028-C-A5019	NS	X	X							X			X	X	X	X	X	X	X	X	X	X		X	X
M028-C-A5020	FD	X	X							X			X	X	X	X	X	X	X	X	X	X		X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron H

40 Bottles

Sampler: Rob Chapple

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-19-06

Well Number: **M028-E**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		1.0
LEL:		0
02:		0.0

Measured Well Depth: 20.12 ft.
Depth to Water (DTW): 4.38 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 15.74 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 9.71 liters
Casing Radius (R): inch
Verified Depth to Water: 4.38 ft.
Field calculated -- 1 casing vol.*: 9.71 liters
Field calculated -- 3 casing vol.*: 29.13 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
9:44			.4	18.47	1.24	7.27	0	-158	1.98	N	4.50	
9:49	2	0.21	.4	18.00	1.17	7.13	0	-156	0.66	N	4.50	
9:54	4	0.41	.4	17.89	1.18	7.08	0	-155	0.27	N	4.50	
9:59	6	0.62	.4	17.85	1.18	7.06	0	-156	0.10	N	4.50	
10:04	8	0.82	.4	17.91	1.19	7.04	107	-155	0.00	N	4.50	Stabilized
						RC						
Previous Log readings												

Sample Date: 4-9-06 **Start Time:** 10:10 **End Time:** 10:45 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5230

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.50 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M028-E-A5021	NS	X	X			X		X	X	X		X	X	X	X	X	X	X	X	X	X	X		X	X

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M030-C**

Purge Date: 4/19/06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 56°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104577	0
LEL:	9546101	6
02:	9546101	0

Measured Well Depth: 86.23' ft.

Depth to Water (DTW): 6.16' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 80.07 ft.

One Casing Volume= ~~[0.163~~ x T(ft) x R(inches)] x 3.7854: 166.9 liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: 6.16' ft.

Field calculated -- 1 casing vol.*: 166.90' liters

Field calculated -- 3 casing vol.*: 500.70' liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	0735	1.50	.01	.3/min	17.94	55.1	6.94	0	-222	1.55	Y	6.22	
10	0740	3.00	.02	.3/min	18.00	55.1	7.32	0	-228	1.08	Y	6.35	
15	0745	4.50	.03	.3/min	18.07	55.1	7.50	0	-231	0.90	Y	6.50	
20	0750	6.00	.04	.3/min	18.13	55.1	7.59	0	-231	0.79	Y	6.71	
25	0755	7.50	.05	.3/min	18.15	55.1	7.67	0	-232	0.71	Y	6.76	
30	0800	9.00	.06	.3/min	18.18	55.2	7.71	0	-231	0.66	Y	6.79	
35	0805	10.50	.07	.3/min	18.20	55.2	7.74	0	-231	0.62	Y	6.81	
Previous Log readings													

Sample Date: 4/19/06 **Start Time:** 0810 **End Time:** 0840

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5231 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 7.02 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M030-C-A5024	NS	X								X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

13 Bottles 12

Sampler: C. Sim / A Baker

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-19-06

Well Number: M031-A M031A-

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: °54 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	20.0

Measured Well Depth: 12.40 ft.
Depth to Water (DTW): ~~5.0~~ 0.5 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.9 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.34 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 0.5 ft.
Field calculated -- 1 casing vol.*: 7.34 liters
Field calculated -- 3 casing vol.*: 22.02 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0812	0.0	0.0	300mL/m	15.4	2.00	7.90	3.4	-145	.90	N	.88	
0815	0.9	.12		15.4	1.09	7.71	2.0	-149	.49	N	.88	
0818	1.8	.24		15.4	1.07	7.65	.12	-151	.25	N	.87	
0821	2.7	.36		15.3	.882	7.53	-.8	-154	.24	N	.87	
0824	3.6	.49		15.3	.878	7.49	-1.0	-157	.23	N	.87	
0827	4.5	.61		15.3	.857	7.45	0.0	-159	.20	N	.87	
Previous Log readings												

Sample Date: 4-19-06 **Start Time:** 0840 **End Time:** 0855 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1- A5229

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 0.5 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
~~M031-A5025~~ M031-A-A5025 NS	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

15 Bottles

Comments:

Sampler: SL + R. Kay

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-19-06

Well Number: **M031-C**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 54° Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	0.0
LEL:	9050049	0.0
02:	9050049	20.8

Measured Well Depth: 87.35 ft.
Depth to Water (DTW): 4.20 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 83.15 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 115.51 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 4.20 ft.
Field calculated -- 1 casing vol.*: 115.51 liters
Field calculated -- 3 casing vol.*: 346.54 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0729	0.0	0.0	300ml/m	15.0	36.7	6.30	.18	~~137~~ 2.7	2.70	N	4.71	
0732	.9	.007		16.9	36.5	7.06	-3.9	-255	1.52	N	4.72	
0735	1.8	.015		17.0	36.7	7.33	13.3	-259	1.32	N	4.72	
0738	2.7	.023		17.1	36.8	7.35	15.0	-258	1.30	N	4.72	
0741	3.6	.031		17.1	36.9	7.36	13.5	-252	1.29	N	4.72	
Previous Log readings												

Sample Date: 4-19-06 **Start Time:** 0750 **End Time:** 0810 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1-A5229

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.91 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M031-C-A5026 NS	X								X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: _____

13 Bottles

Sampler: Shan Baker

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M032-A**

Purge Date: 4.19.06

Weather: Sunny / Cloudy, Rain, Windy, Hot Temperature: 50 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0
02:		0.0

Measured Well Depth: 12.65 ft.
Depth to Water (DTW): 1.22 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.43 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.05 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 1.22 ft.
Field calculated -- 1 casing vol.*: 7.05 liters
Field calculated -- 3 casing vol.*: 21.15 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:02			.4	16.62	.411	6.72	0	2	3.15	N	1.27	
7:07	2	0.28	.4	16.62	.411	7.26	0	-43	0.87	N	1.27	
7:12	4	0.57	.4	16.60	.430	7.37	0	-107	0.35	N	1.27	
7:17	6	0.85	.4	16.57	.429	7.44	0	-124	0.18	N	1.27	
7:22	8	1.13	.4	16.47	.430	7.41	0	732	0.09	N	1.27	Stabilized
						RC						
Previous Log readings												

Sample Date: 4.19.06 **Start Time:** 7:25 **End Time:** 7:50 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5230

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 1.27 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M032-A-A5027	NS	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

15 Bottles

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Purge Date: 4/19/06

Well Number: **M033-A**

Weather: (Sunny) Cloudy, Rain, Windy, Hot **Temperature:** 62°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.48 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 3.64' ft.

Field calculated -- 1 casing vol.*: 5.48 liters

Field calculated -- 3 casing vol.*: 16.44 liters

Personal Air Monitoring	Meter ID#	Results
PID:	104577	6.4
LEL:	954610	0
02:	954610	0

Measured Well Depth: 12.52' ft.

Depth to Water (DTW): 3.64' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 8.88' ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0905 (5')	1.50	.27	.3l/min	16.36	0.604	8.09	2.0	-224	1.57	N	3.64	
0910 (10')	3.00	.55	.3l/min	16.24	0.587	7.95	1.9	-226	1.13	N	3.64	
0915 (15')	4.56	.82	.3l/min	16.27	0.605	7.89	1.8	-226	0.89	N	3.66	
0920	6.00	1.09	.3l/min	16.25	0.595	7.84	1.8	-227	0.86	N	3.67	
0925	7.50	1.37	.3l/min	16.23	0.586	7.86	1.6	-226	0.91	N	3.68	
Previous Log readings												

Sample Date: 4/19/06 **Start Time:** 0930 **End Time:** 1015 **Equipment Blank Collected:** _____ **Trip Blank Collected:** 783-A5231

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.92 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M033-A-A5028	NS	X	X			X				X		X	X	X	X	X	X	X	X	X	X	X		X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 1 mg/L

22 Bottles

Sampler: C.S. / A. Drolet

787

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M035-A**

Purge Date: 4/17/06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 67°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104577	0.1
LEL:	9546101	0
02:	9546101	6

Measured Well Depth: 13.88' ft.

Depth to Water (DTW): 4.11' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.77 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.63 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 4.11' ft.

Field calculated -- 1 casing vol.*: 6.63 liters

Field calculated -- 3 casing vol.*: 18.09 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1320	1.5	.25	.3/min	17.04	0.705	7.25	53.1	-8	2.89	N	4.12	
1325	3.0	.50	.3/min	16.95	0.706	7.15	39.9	-6	1.66	N	4.13	
1330	4.5	.75	.3/min	16.91	0.711	7.15	20.3	2	1.37	N	4.13	
1335	6.0	1.00	.3/min	17.06	0.714	7.12	17.5	7	1.19	N	4.14	
1340	7.5	1.24	.3/min	17.07	0.715	7.12	18.3	9	1.12	N	4.15	
1345	9.0	1.49	.3/min	17.06	0.718	7.12	22.3	10	1.10	N	4.17	
Previous Log readings												

Sample Date: 4/19/06 **Start Time:** 1350 **End Time:** 1425

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5231 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 4.24 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M035-A-A5031 NS	X				X				X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

15 Bottles

Sampler: C. S... 4/19/06

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

1163

IR Site 2

Event: Spring2006

Purge Date: 4-19-06

Well Number: **M010-A**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: °64 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	28.1

Measured Well Depth: 43.60 ft.

Depth to Water (DTW): .50 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 43.10 ft.

One Casing Volume= [redacted] liters

Casing Radius (R): 1 inch

Verified Depth to Water: 0.50 BTOC ft.

Field calculated -- 1 casing vol.*: 7.0 26.5 liters

Field calculated -- 3 casing vol.*: 21.0 79.7 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1133	0.0	0.0	300 ml/m	17.9	18.2	7.68	91.8	-209	3.28	N	1.72	
1136	0.9	~~0.12~~ 0.33		17.6	19.6	7.82	109.0	-235	1.98	N	1.97	
1139	1.8	~~0.25~~ 0.67		17.6	19.5	7.83	136.0	-246	1.88	N	2.35	
1142	2.7	~~0.38~~ 0.10		17.9	19.2	7.84	331.0	-252	1.80	N	2.70	
Previous Log readings												

Sample Date: 4-19-06 **Start Time:** 1155 **End Time:** 1205 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TBI A5229

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 1.80 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M010-A-A5033	NS	X																							

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: _____

3 Bottles

Sampler: Sh[redacted] Baker

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M012-A**

Purge Date: _____

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 65 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		20.9

Measured Well Depth: 15.35 ft.
Depth to Water (DTW): 2 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 13.35 ft.

One Casing Volume= [redacted] liters
Casing Radius (R): 2 inch
Verified Depth to Water: 2 ft.
Field calculated – 1 casing vol.*: 8.24 liters
Field calculated – 3 casing vol.*: 24.71 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1407	0	0	400	18.59	0.50	7.26	61.1	-77	3.02	N	2.32	
1412	2	0.24	400	~~16.27~~ 16.27	0.22	6.95	40.3	-79	0.37	N	2.33	
1417	4	0.48	400	16.04	0.23	6.95	38.0	-79	0.08	N	2.35	
1425	6	0.73	400	16.00	0.22	6.95	36.8	-80	0.00	N	2.35	
1430	8	0.97	400	15.97	0.22	6.94	37.6	-79	0.00	N	2.35	
		—										
Previous Log readings												

Sample Date: 4/19/06 **Start Time:** 1440 **End Time:** 1515 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB2-A5230

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.35 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M012-A-A5036	NS	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 26 Bottles Sampler: DA

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2

Event: Spring2006

Well Number: **M012-B**

Purge Date: 4-19-06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 67° Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	28.7

Measured Well Depth: 73.60 ft.
Depth to Water (DTW): 1.50 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 72.10 ft.

One Casing Volume= [redacted]: 44.48 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 1.50 ft.
Field calculated -- 1 casing vol.*: 44.48 liters
Field calculated -- 3 casing vol.*: 133.44 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1411	0.0	0.0	300ml/m	16.5	50.0	7.57	29.2	78	6.55	N	1.60	
1414	0.9	.02		16.9	50.1	7.39	26.1	-119	2.46	N	1.61	
1417	1.8	.04		16.9	50.2	7.27	16.2	-111	1.36	N	1.61	
1420	2.7	.06		17.0	50.3	7.22	11.2	-98	.81	N	1.61	
1423	3.6	.08		17.0	50.3	7.21	9.5	-80	.72	N	1.61	
1426	4.5	.10	—	17.1	50.3	7.22	8.9	-76	.57	N	1.61	
Previous Log readings												

Sample Date: 4-19-06 **Start Time:** 1435 **End Time:** 1500 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TBI A5229

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 1.58 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M012-B-A5037	NS	X		X	X	X	X			X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

24 Bottles

Sampler: Sha Baker

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/19/06

Well Number: **M013-A**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 70 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		20.2

Measured Well Depth: 13.60 ft.
Depth to Water (DTW): 0.61 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 12.99 ft.

One Casing Volume= [redacted] liters
Casing Radius (R): 2 inch
Verified Depth to Water: 0.61 ft.
Field calculated -- 1 casing vol.*: 8.01 liters
Field calculated -- 3 casing vol.*: 24.04 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1240	0	0	400	17.73	0.25	7.41	26.4	47	5.75	N	1.06	
1245	~~12.3~~	0.25	400	17.11	0.23	7.32	22.1	45	3.38	N	1.10	
1250	4	0.50	400	17.08	0.24	7.30	21.2	45	2.78	N	1.10	
1255	6	0.75	400	16.94	0.24	7.29	18.4	47	2.39	N	1.10	
1300	8	1.00	400	16.88	0.24	7.29	16.9	48	2.19	N	1.10	
1305	~~10.2~~	~~1.25~~ 1.15	400	16.90	0.24	7.30	16.1	49	2.09	N	1.11	
1308	10.4	1.30	400	16.90	0.24	7.29	16.2	51	2.07	N	1.14	
1309	11.6	1.45	400	17.05	0.24	7.31	13.6	54	2.05	N	1.14	
Previous Log readings												

Sample Date: 4/19/06 **Start Time:** 1315 **End Time:** _____

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 1.14 **MS/MSD** ☐

Equipment Blank Collected: NA
1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB2-5230
Complete a Collected Sample Form for each blank collected.

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M013-A-A5038	NS	X		X	X	X	X	X	X	X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 22 Bottles Sampler: [illegible]

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2

Event: Spring2006

Purge Date: 4-19-06

Well Number: **M013-C**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 64 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9950049	0.0
02:	9950049	29.0

Measured Well Depth: 78.85 ft.
Depth to Water (DTW): 2.22 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 76.65 ft.

One Casing Volume= [illegible] liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.22 ft.
Field calculated -- 1 casing vol.*: ~~12.49~~ 47.27 liters
Field calculated -- 3 casing vol.*: ~~37.47~~ 141.8 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1230	0.0	0.0	300mL/M	16.9	49.4	7.70	74.0	-12	3.99	N	2.41	
1233	0.9	.019		16.8	49.1	7.38	79.7	-130	1.50	N	2.41	
1236	1.8	0.038		16.9	49.0	7.26	127.0	-133	.88	N	2.42	
1239	2.7	.0574		17.0	49.0	7.23	116.9	-126	.80	N	2.41	
1242	3.6	0765		17.0	49.1	7.21	88.5	-119	.76	N	2.41	
Previous Log readings												

Sample Date: 4-19-06 **Start Time:** 1255 **End Time:** 1355 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1 A5229

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.35 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M013-C-A5039 NS	X		X	X	X	X			X						X	X	X	X	X	X	X			
M013-C-A5040 FD	X		X	X	X	X			X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Field Dup @ 1305

40 Bottles

Sampler: SM Baker

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB1-A5229
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYYMMDD) 2006/04/19 TIME (24 HRS) 0700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cruz

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5230
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 2

DATE (YYYMMDD) 2006/04/06 (10) 19

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Geyer

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5230
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 3

DATE (YYYMMDD) 2006/04/19

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature:

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 4/20/06 Time: 0630 Page: 1 of 1

Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11

Work Description:

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357

Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue

Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A

Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness

Minimum PPE Required: Level D

Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling

Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Shawn Baker		ERI			
Dennis Hill	D. Hill	ITSI			
Robyn Chappell	Robyn Chappell	ITSI			
Brian Dee	Brian Dee	ITSI			
[illegible]		Mactec			
Anthony S. Doolet		MACTEC			
Kimberly Tan	Kimberly Tan	ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name printed) Signature

Site Superintendent: JD LENZEN (Name printed) Signature

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/20/06
REPORT NO 208

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐
WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 1 and 2
	IR Site 1 is 96% complete. Only one well was not sampled due to flooding.
	IR Site 2 is 39% complete. No re-samples or unavailable wells to date.
	Base-wide groundwater sampling is 32% complete.

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	M002-A, M003-B & M025-A were re-sampled and scheduled for analysis

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Gerard A. Hall 4/20/06
AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/20/06
FIELD ACTIVITY DAILY LOG	Report	208

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10
Kimberly Tom	Field Tech	8			

Total Work Hours On Job Site This Date inc. Cont. Sheet	88
Cumulative Total of Work Hours From Previous Report	550
Total Work Hours On Job Site From Start Of Construction	638

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 1 and 2.
Fifteen wells were sampled, three of which were re-samples from IR Site 1
Purge water from the 55gal drums of each team was pumped into the baker tank.
All samples were shipped off to the laboratory for analysis.

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: Arnold A Ellis DATE: 4/20/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4/20/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Monitoring well sample.			
Subcontractors/Visitors:			
Weather: Sun, cool			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: arrived on site loaded the truck with equipment
0630: attended morning tailgate meeting.
calibrated field equipment.
0640: Mobed out to Site 2
: Set up on well M016-A
: collected sample M016-A-A5043
819: Set up. and started purge on M016-E
0850: collected sample M016-E-A5045
0914: set up and started M016-B purge.
0940: collected sample M016-B-A5044
1015: Delivered samples to the field office
1030: set up at site 2 M017-A.
1145: started purge
1215: collected sample M017-A-A5046
1310: Set up at M020-A
1345: collected sample M020-A-A5052
1430: Delivered samples to the field office.
1500: completed daily paperwork, packaged samples for shipment.

Prepared by:	B. See	Signature:		Date:	4/20/06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4/20/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213		Project No.: 02 125.11
Work Description: GW Sampling			
Subcontractors/Visitors: ITSI			
Weather: Cloudy			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 on site at site trailer LEL # 995049 PID # 104558

0630 Collected all sample materials / bottles and packed up sampling trucks. H2S Briefing. Calibrate meters

0700 at M003-B DTW = 6.10 Sample # M003-B-A5006 @ 0730

0815 at M002-A DTW = 5.96 Sample # M002-A-A5004 @ 0840

0925 at M025-A DTW = 3.66 Sample # M025-A-A5012 @ 1005

1050 at 442-MW1 DTW = .60 Sample # 442-MW1-A5032 @ 1135

1250 at M014-A DTW = 1.05' Sample # M014-A-A5011 @ 1320

Prepared by:	C. Supsen	Signature:		Date:	4/20/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.20.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Site 2 Well Sampling			
Subcontractors/Visitors:			
Weather: Sunny			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-07:00 - Tailgate safety meeting, calibration and loading of equipment.
07:00-08:45 - Purged and sampled well # MO19-A and a field duplicate.
08:50-09:45 - Purged and sampled well #MO18-E.
09:55-11:10 - Purged and sampled well #MO10-B.
11:15-12:15 - Purged and sampled well #MO11-A.
12:30-13:00 - Lunch
13:00-13:30 - Loaded equipment onto truck.
13:30-14:45 - Purged and sampled well #MO18-A.
15:00 - Offsite.

Prepared by:	R.CHAPPLE	Signature:	R Chapple	Date:	4-20-06

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(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4503**
Page: 1 of 1

FIELD SAMPLE ID: INFORMATION	DATE	TIME	ANALYSIS: VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M002-A-A5004	4/20/06	0240					X		X	X	X		X				X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Imlet
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — CWS
Printed Name — Signature
ITSI — 4/20/06 1300
Company — Date and Time

RECEIVED BY: AARON GRENIER — [signature]
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature
_____ — _____
Company — Date and Time

RECEIVED BY: _____ — _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4505**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M003-B-A5006	4/26/06	0730									X			X	X	X	X	X	X	X	X	X	X			X	

SAMPLED BY: C. Simpson / A. Dorket
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CHS (Signature)
ITSI (Company) 4/26/06 1300 (Date and Time)
RECEIVED BY: AARON GREWER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4510**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M025-A-A5012	4/20/06	1005					X		X	X	X		X				X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Arlett
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — Printed Name — Signature
ITST — Company — 4/20/06 1300 — Date and Time
RECEIVED BY: AARON GROVER — Printed Name — Signature

RELINQUISHED BY: _____ Printed Name — Signature
Company — Date and Time
RECEIVED BY: _____ Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4528
Page: 1 of

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
442-MW1-A5032	4/26/06	1135				X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Dodet
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CHS (Signature)
ITSE (Company) 4/26/06 1430 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4530**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml - V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M010-B-A5034	4.30.06	10:25				X	X	X			X			X	X	X	X	X	X	X	X	X	X			X	
												RC															

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.20.06 12:00 (Date and Time)

RECEIVED BY: AARON GRAVES (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4531**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M011-A-A5035	4.20.06	11:45				X	X	X	X	X	X						X	X	X	X	X	X	X				
										RQ																	

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
1751 (Company) 4.20.06 12:00 (Date amd Time)
RECEIVED BY: AARON CROWDER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4536**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M014-A-A5041	4.20.06	1320				X	X	X	X	X	X						X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Nolet
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) [signature] (Signature)
ITSI (Company) 4.20.06 / 1430 (Date and Time)

RECEIVED BY: Jerry Rojas (Printed Name) [signature] (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4538**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M016-A-A5043	~~4/20/06~~ 4/19/06 ~~0745~~	0745				X	X	X	X	X				X	X	X										X	

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) _____ (Signature)
ITSI (Company) 4-20-06 1454 (Date and Time)

RECEIVED BY: AARON GRENIER (Printed Name) _____ (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

Innovative Technical Solutions, Inc.
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4539**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M016-B-A5044	4/20/06	0945				X	X	X			X			X	X	X	X	X	X	X	X	X	X			X	

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SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) / (Signature)
ITSI (Company) / 4-20-06 1210 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) / Tony Rojas (Signature)

RELINQUISHED BY: (Printed Name) / (Signature)
(Company) / (Date and Time)

RECEIVED BY: (Printed Name) / (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4540**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M016-E-A5045	~~6/5/06~~ 4-20-06	0850									X						X	X	X	X	X	X	X				

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SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) _____ (Signature)
I.T.S.I (Company) 4-20-06 1506 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) _____ (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4541**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M017-A-A5046	4/20/06	1215				X	X	X	X	X	X						X	X	X	X	X	X	X				

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee — Printed Name — Signature
ITSI — Company
4/20/06 — Date and Time

RECEIVED BY: Tony Rojas — Printed Name — Signature

RELINQUISHED BY: _____ Printed Name _____ Signature
Company _____ Date and Time

RECEIVED BY: _____ Printed Name _____ Signature

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4542
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M018-A-A5047	4-20-06	14:15				X	X	X	X	X																	

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
1151 (Company) 4-20-06 14:45 (Date and Time)
RECEIVED BY: AARON GREWER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4543**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M018-E-A5048	4.20.06	9:15									X						X	X	X	X	X	X	X				
											PC																

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SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Robyn Chapple (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.20.06 12:00 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4544**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M019-A-A5049	4.20.06	7:35				X	X	X	X	X																	
M019-A-A5050	4.20.06	7:45				X	X	X	X	X																	
									RE																		

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company)
4.20.06 12:00 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4546**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M020-A-A5052	4/20/06	1345				X	X	X	X	X	X																

SAMPLED BY:
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian P. Dee (Printed Name) — Signature
ITSI (Company) — 4/20/06 (Date and Time)

RECEIVED BY: AARON GRENTER (Printed Name) — Signature

RELINQUISHED BY: (Printed Name) — (Signature)
(Company) — (Date and Time)

RECEIVED BY: (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**
SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**
COC: **4711**
Page: ____ of ____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
~~TB1-A5232~~	~~4/20/06~~	~~0745~~	~~X~~		~~X~~																						
M016-B-A5044	4/20/06	0940	X		X																						
M016-A-A5043	4/20/06	0745	X		X																						
M020-A-A5052	4/20/06	1345	X		X																						
M017-A-A5046	4/20/06	1215	X		X																						
TB1-A5232	4/20/06	0700	X																								

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SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker (Printed Name) _____ (Signature)
ITSI (Company) 4-20-06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) _____ (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4712**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5233	4/20/06	0700	X																								
M019-A-A5049	4.20.06	7:35	X		X																						
M019-A-A5050	4.20.06	7:45	X		X																						
M010-B-A5034	4.20.06	10:25	X		X																						
M011-A-A5035	4.20.06	11:45	X		X																						
M018-A-A5047	4.20.06	14:15	X		X																						

SAMPLED BY: ROBYN CHAPPLE
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: ROBYN CHAPPLE (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4.20.06 14:45 (Date amd Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4713**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCL~~ Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB3-A5234	4/20/06	700	X	~~X~~ 5																							
MW3-B-A5006	4/20/06	0730	X	X																							
MW2-A-A5004	4/20/06	0840	X																								
MW5-A-A5012	4/20/06	1005	X																								
442-MW1-A5052	4/20/06	1135	X		X																						
MW4-A-A5041	4/20/06	1320	X		X																						
			~~X~~	C5	~~X~~																						

SAMPLED BY: C. Simpson / A. Ouliet
SIGNATURE: CS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) — CS (Signature)
ITSI (Company) — 4/20/06 1430 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M002-A**

Purge Date: 4/20/06

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 63°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104558	0
LEL:	9950049	0
02:	"	0

Measured Well Depth: 9.16 ft.

Depth to Water (DTW): 5.80 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 3.36 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 2.073 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 5.80' ft.

Field calculated -- 1 casing vol.*: 2.073 liters

Field calculated -- 3 casing vol.*: 6.220 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0820	1.50	.72	.3/min	15.47	1.79	7.85	0	47	5.11	N	5.82	
0825	3.00	1.45	.3/min	15.23	1.50	7.59	0	49	4.46	N	5.82	
0830	4.50	2.17	.3/min	15.22	1.37	7.48	0	51	4.05	N	5.83	
0833	5.40	2.60	.3/min	15.18	1.37	7.49	0	51	4.02	N	5.83	
0836	6.30	3.04	.3/min	15.21	1.35	7.47	0	52	4.04	N	5.84	
Previous Log readings												

Sample Date: 4/20/06 **Start Time:** 0840 **End Time:** 0910 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB5-A5234

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.94 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M002-A-A5004 NS	X				X		X	X	X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

17 Bottles

Sampler: C. Simpson / A. Ardoff

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 1

Event: Spring2006

Well Number: **M003-B**

Purge Date: 4/20/06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104558	0
LEL:	995049	0
02:	995049	0

Measured Well Depth: 42.80' ft.

Depth to Water (DTW): 6.10' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 36.70 ft.

One Casing Volume= [~~0.163~~ .367 x T(ft) x R(inches)] x 3.7854: 76.48 liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: 6.10' ft.

Field calculated – 1 casing vol.*: 76.48 liters

Field calculated – 3 casing vol.*: 229.43 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration				(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	0705	1.5	.02	.3/min	17.91	47.0	6.38	0	-95	2.29	N	6.11	
10	0710	3.0	.03	.3/min	18.14	47.5	6.60	0	-107	1.64	N	6.12	
15	0715	4.5	.04	.3/min	18.41	47.6	6.74	0	-117	1.30	N	6.12	
18	0718	5.40	.06	.3/min	18.48	49.9	6.81	0	-123	1.09	N	6.12	
21	0721	6.30	.08	.3/min	18.54	48.2	6.85	0	-126	0.98	N	6.12	
25	0725	8.20	.09	.3/min	18.55	48.2	6.86	0	-128	0.96	N	6.14	
29	0729	8.40	.11	.3/min	18.57	47.9	6.92	0	-120	0.95	N	6.16	
Previous Log readings													

Sample Date: 4/20/06 **Start Time:** 0730 **End Time:** ~~0800~~ 0810 (.5)

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TBS-A5234 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 6.24 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M003-B-A5006	NS	X	X							X			X	X	X	X	X	X	X	X	X	X		X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron =

20 Bottles

Sampler: C. Simpson / A. Nuleaf

IR Site 1

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/20/06

Well Number: **M025-A**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 65°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104558	0.1
LEL:	99506049	0
02:	11 4	0

Measured Well Depth: 13.70 ft.
Depth to Water (DTW): 3.66 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.04 ft.

One Casing Volume= {0.163 x T(ft) x R(inches) } x 3.7854: 6.17 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.66 ft.
Field calculated – 1 casing vol.*: 6.17 liters
Field calculated – 3 casing vol.*: 18.52 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	0940	1.5	.24	.3/min	17.80	1.74	8.08	0	-232	2.05	N	3.66	
10	0945	3.0	.49	.3/min	17.58	1.05	8.06	0	-223	1.95	N	3.67	
15	0950	4.5	.73	.3/min	17.32	0.692	7.97	0	-213	1.00	N	3.67	
18	0953	5.4	.87	.3/min	17.25	0.681	7.95	0	-214	.91	N	3.69	
21	0956	6.3	1.02	.3/min	17.17	0.686	7.94	0	-214	.95	N	3.69	
24	1000	7.2	1.17	.3/min	17.20	0.684	7.93	0	-217	.94	N	3.70	
Previous Log readings													

Sample Date: 4/20/06 **Start Time:** 1005 **End Time:** 1035 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5234

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

*1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.02 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M025-A-A5012 NS	X				X		X	X	X		X				X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

17 Bottles

Sampler: C. Simpson / A. Dalet

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/26/06

Well Number: 442-MW1

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 67°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	1045580	0
LEL:	9950649	0
02:	4 11	0

Measured Well Depth: 13.00 ft.
Depth to Water (DTW): .60 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 12.40 ft.

One Casing Volume [illegible] .653 = 61.30 liters
Casing Radius (R): 2 inch
Verified Depth to Water: .60 ft.
Field calculated -- 1 casing vol.*: 61.36 liters
Field calculated -- 3 casing vol.*: 183.91 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	1100	1.5	.02	.3/min	17.15	0.324	7.54	41.9	-137	2.26	N	.61	
10	1105	3.0	.04	.3/min	17.06	0.323	7.38	0	-130	1.52	N	.62	
15	1110	4.5	.07	.3/min	17.06	0.327	7.29	0	-127	1.17	N	.62	
20	1115	6.0	.10	.3/min	17.37	0.324	7.25	0	-124	0.96	N	.63	
	1120	7.5	.12	.3/min	17.36	0.328	7.22	0	-124	0.87	N	.64	
	1125	9.0	.15	.3/min	17.35	0.330	7.19	0	-122	0.79	N	.62	
Previous Log readings													

Sample Date: 4/26/06 **Start Time:** 1135 **End Time:** 1230 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5234

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water .74 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
442-MW1-A5032	NS	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment _____

25 ~~Bottles~~ 24

Sampler: C. Sia / A. Dolet

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.20.06

Well Number: **M010-B**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 43.56 ft.
Depth to Water (DTW): 0.30 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 43.26 ft.

One Casing Volume= [redacted] liters
Casing Radius (R): 1 inch
Verified Depth to Water: 0.30 ft.
Field calculated -- 1 casing vol.*: 26.69 liters
Field calculated -- 3 casing vol.*: 80.07 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
9:57			.4	18.41	27.8	7.83	24.1	-166	3.07	N	1.45	
10:02	2	0.07	.4	18.54	27.7	7.73	26.6	-185	0.65	N	2.45	
10:07	4	0.15	.4	18.56	27.8	7.83	22.1	-193	0.23	N	3.03	
10:12	6	0.22	.4	18.54	26.9	7.84	20.6	-196	0.07	N	3.37	
10:17	8	0.30	.4	18.60	26.4	7.84	114.0	-197	0.00	N	3.52	Stabilized
						RC						
Previous Log readings												

Sample Date: 4.20.06 **Start Time:** 10:25 **End Time:** 11:13 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-AS233

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.52 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M010-B-A5034 NS	X		X	X	X	X			X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

24 Bottles

Sampler: Natasa Clayton

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2

Event: Spring2006

Purge Date: 4.20.06

Well Number: **M011-A**

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		0
LEL:		0
02:		6

Measured Well Depth: 13.05 ft.
Depth to Water (DTW): 2.0 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.05 ft.

One Casing Volume= [redacted] 6.82 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.0 ft.
Field calculated -- 1 casing vol.*: 6.82 liters
Field calculated -- 3 casing vol.*: 20.46 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
11:15			.4	16.46	1.94	7.68	108.0	-49	3.85	N	2.27	
11:20	2	0.29	.4	15.97	1.70	7.39	226.0	-60	0.84	N	2.29	
11:25	4	0.59	.4	15.86	1.77	7.35	81.9	-66	0.36	N	2.29	
11:30	6	0.88	.4	15.85	1.82	7.34	48.1	-71	0.15	N	2.29	
11:35	8	1.17	.4	15.81	1.87	7.32	36.8	-73	0.03	N	2.29	Stabilized
												RC
							RC					
Previous Log readings												

Sample Date: 4.20.06 **Start Time:** 11:45 **End Time:** 12:10

Equipment Blank Collected: N/A
1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB2-A5233
Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 2.29 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M011-A-A5035	NS	X		X	X	X	X	X	X	X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment:

22 Bottles

Sampler: Robert Chapple

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/20/06

Well Number: **M014-A**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 68°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104558	0.1
LEL:	9950049	0
02:	" "	0

Measured Well Depth: 14.30 ft.
Depth to Water (DTW): 1.05' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 13.25 ft.

One Casing Volume= [0.163 x 1 (ft) x R(inches)]² x 3.7854: 8.176 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 1.05' ft.
Field calculated -- 1 casing vol.*: 8.176 liters
Field calculated -- 3 casing vol.*: 24.527 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1255	1.5	.18	.3/min	16.60	0.125	7.63	67.6	47	8.65	N	1.05	
1300	3.0	.37	.3/min	15.91	0.124	7.42	24.6	56	6.22	N	1.07	
1305	3.90	.48	.3/min	15.83	0.121	7.33	3.2	61	5.93	N	1.07	
1306	4.80	.59	.3/min	15.82	0.119	7.32	0	65	5.94	N	1.09	
1310	6.00	.73	.3/min	15.76	0.118	7.31	0	65	5.93	N	1.10	
Previous Log readings												

Sample Date: 4/20/06 **Start Time:** 1320 **End Time:** 1400 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB-A5254

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 1.16 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M014-A-A5041 NS	X		X	X	X	X	X	X	X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 22 Bottles

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-20-06

Well Number: M016-A

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 54 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9517135	0.0
02:	9517135	20.7

Measured Well Depth: 14.69 ft.
Depth to Water (DTW): 7.35 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 7.34 ft.

One Casing Volume=[redacted]: _____ liters
Casing Radius (R): 1 inch
Verified Depth to Water: 7.35 ft.
Field calculated -- 1 casing vol.*: 4.5 liters
Field calculated -- 3 casing vol.*: 13.6 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
717	0.0	0	300	16.0	5.36	6.18	7.3	-160	1.67	N	7.42	
720	0.9	0.2		16.2	5.36	6.63	-5.1	-187	1.07	N	7.55	
723	1.8	0.4		16.3	5.35	6.73	-4.1	-196	.78	N	7.59	
726	2.7	0.6		16.4	5.34	6.75	-4.2	-198	.73	N	7.59	
729	3.6	1.2		16.4	5.35	6.76	-2.6	-199	.70	N	7.60	
Previous Log readings												

Sample Date: 4-20-06 **Start Time:** 0745 **End Time:** 0800 **Equipment Blank Collected:** NO **Trip Blank Collected:** TBL-A5232

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.55 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M016-A-A5043	NS	X		X	X	X	X	X	X				X	X	X										X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

16 Bottles

Sampler: Sho Baker

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-20-06

Well Number: **M016-B**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 58 **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104582	0.0
LEL:	9517135	0.0
02:	9517135	20.8

Measured Well Depth: 55.70 ft.
Depth to Water (DTW): 7.76 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 47.94 ft.

One Casing Volume=[illegible] liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 7.76 ft.
Field calculated -- 1 casing vol.*: 68.9 liters
Field calculated -- 3 casing vol.*: 206.7 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0914	0.0	0.0	300 max	17.4	51.8	7.15	-0.2	23	6.79	N	8.59	
0917	0.9	.01		17.4	51.5	7.01	-4.0	-11	1.32	N	9.55	
0920	1.8	.02		17.4	51.4	6.98	-5.1	-13	1.02	N	9.60	
0923	2.7	.03		17.4	51.4	6.98	1.5	-15	.97	N	9.64	
0926	3.6	.05		17.4	51.2	7.00	-5.2	-18	.82	N	9.64	
0929	4.5	.06	—	17.4	51.1	6.99	-5.3	-19	.75	N	9.65	
Previous Log readings												

Sample Date: 4-20-06 **Start Time:** 0940 **End Time:** 1010 **Equipment Blank Collected:** N **Trip Blank Collected:** TBI-A5232

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min
1/day/team when portable pump (or other non disposable reusable equipment) is used
Complete a Collected Sample Form for each blank collected.

Final Depth to Water 13.55 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M016-B-A5044 NS	X		X	X	X	X			X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: [illegible] 24 Bottles Sampler: Shawn Reidy

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2

Event: Spring2006

Purge Date: 4-20-06

Well Number: **M016-E**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** °54 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9517135	0.0
02:	9517135	20.8

Measured Well Depth: 24.35 ft.

Depth to Water (DTW): 7.80 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 16.55 ft.

One Casing Volume= [redacted]: _____ liters

Casing Radius (R): 1 inch

Verified Depth to Water: 7.80 ft.

Field calculated -- 1 casing vol.*: 10.2 liters

Field calculated -- 3 casing vol.*: 30.6 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
819	0.0	0.0	300	17.2	33.0	6.88	-5.2	-207	7.89	N	8.15	
822	0.9	0.9		17.2	29.5	6.99	-5.2	-218	6.86	N	8.17	
825	1.8	0.17		17.2	24.1	7.04	-3.4	-223	6.38	N	8.19	
828	2.7	0.26		17.2	22.0	7.06	-3.7	-226	6.07	N	8.20	
831	3.6	0.35		17.2	21.0	7.07	-3.4	-226	5.88	N	8.20	
834	4.5	0.44		17.2	20.6	7.08	-2.2	-226	5.79	N	8.21	
837	5.4	0.52		17.2	20.3	7.08	-3.3	-227	5.72	N	8.21	
Previous Log readings												

Sample Date: 4-20-06 **Start Time:** 0850 **End Time:** 0900 **Equipment Blank Collected:** N **Trip Blank Collected:** TB[illegible]-A5232

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.98 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved.	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M016-E-A5045	NS									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment _____

10 Bottles

Sampler: SH Baker

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-20-06

Well Number: **M017-A**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 65° Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104582	0.0
LEL:	9517135	0.0
02:	9517135	20.8

Measured Well Depth: 14.55 ft.
Depth to Water (DTW): 9.38 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 5.17 ft.

One Casing Volume= [redacted]: _____ liters
Casing Radius (R): 1 inch
Verified Depth to Water: 9.38 ft.
Field calculated -- 1 casing vol.*: ~~0.8~~ 3.2 liters
Field calculated -- 3 casing vol.*: 9.6 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1145	0.0	0.0	300ml/m	16.0	24.2	7.55	31.2	81	6.45	N	9.45	
1148	0.9	0.28		15.7	24.2	7.55	34.3	82	6.24	N	9.49	
1151	1.8	0.56		15.6	24.3	7.52	26.1	87	5.80	N	9.46	
1154	2.7	0.84		15.5	24.2	7.47	15.4	92	5.40	N	9.46	
1157	3.6	1.25		15.5	24.3	7.42	10.7	99	5.48	N	9.47	
1200	4.5	1.4		15.5	24.5	7.40	11.1	103	5.47	N	9.49	
Previous Log readings												

Sample Date: 4-20-06 **Start Time:** 1215 **End Time:** 1255 **Equipment Blank Collected:** N **Trip Blank Collected:** TBL-A5232

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 9.41 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M017-A-A5046 NS	X		X	X	X	X	X	X	X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

22 Bottles

Comments:

Sampler: [redacted]

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.20.06

Well Number: **M018-A**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

Meter ID#		Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 14.5 ft.
Depth to Water (DTW): 8.3 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.2 ft.

One Casing Volume: 3.83 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 8.3 ft.
Field calculated -- 1 casing vol.*: ~~8~~ RC liters
Field calculated -- 3 casing vol.*: 11.49 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
13:48			.4	15.56	23.8	5.88	3.8	300	3.22	N	~~8.83~~ RC	8.73
13:53 13:40 RC	2	0.52	.4	15.35	24.1	6.39	0	248	1.10	N	~~8.88~~ RC	8.78
13:56	4	1.04	.4	15.36	24.5	6.52	0	222	0.32	N	8.78	
14:03	6	1.57	.4	15.40	24.7	6.58	0	213	0.23	N	8.80	
14:06	7.2	1.88	.4	15.39	24.7	6.61	0	208	0.20	N	8.80	
14:09	8.4	2.19	.4	15.41	24.8	6.62	0	203	0.19	N	8.80	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.20.06 **Start Time:** 14:15 **End Time:** 14:35 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5233

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 8.80 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M018-A-A5047	NS	X		X	X	X	X	X	X																

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: **12 Bottles**

Sampler: Rob Thapple

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4·20·06

Well Number: **M018-E**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 46.74 ft.
Depth to Water (DTW): 7.30 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 39.44 ft.

One Casing Volume= [redacted]: 24.34 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 7.30 ft.
Field calculated -- 1 casing vol.*: 24.34 liters
Field calculated -- 3 casing vol.*: 73.02 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
8:50			.4	16.78	99.4	7.0	0	-86	2.65	N	7.70	
8:55	2	0.08	.4	16.90	99.9	6.89	0	-114	0.73	N	7.70	Conductivity parameters
9:00	4	0.16	.4	16.90	99.9	6.90	0	-120	0.43	N	7.75	maxed out @ 99.9 & started blinking
9:05	6	0.25	.4	16.89	99.9	6.91	8.1	-124	0.22	N	8.00	Stabilized
						RC						
Previous Log readings												

Sample Date: 4·20·06 **Start Time:** 9:15 **End Time:** 9:35 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5233

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 8.00 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M018-E-A5048 NS									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

10 Bottles

Sampler: Debra Chmelik

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.20.06

Well Number: **M019-A**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 45 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 15.02 ft.
Depth to Water (DTW): 6.98 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 8.04 ft.

One Casing Volume= [redacted]: 4.96 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 6.98 ft.
Field calculated -- 1 casing vol.*: 4.96 liters
Field calculated -- 3 casing vol.*: 14.88 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
7:10			.4	16.14	31.8	6.69	0	135	3.93	N	7.05	
7:15	2	0.4	.4	16.21	32.2	7.13	0	85	1.36	N	7.06	
7:20	4	0.8	.4	16.16	32.3	7.17	0	80	0.90	N	7.08	
7:25	6	1.21	.4	16.12	32.3	7.18	0	79	0.70	N	7.10	
7:30	8	1.61	.4	16.12	32.4	7.19	0	79	0.61	N	7.12	Stabilized
						PC						
Previous Log readings												

Sample Date: 4.20.06 **Start Time:** 7:35 **End Time:** 8:10 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5233

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.12 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M019-A-A5049	NS	X		X	X	X	X	X	X																
M019-A-A5050	FD	X		X	X	X	X	X	X																

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment

24 Bottles

Sampler: Rob Chapple

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M020-A**

Purge Date: 4-20-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60F **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	107582	0.0
LEL:	9517135	0.0
02:	9517135	20.8

Measured Well Depth: 13.95 ft.
Depth to Water (DTW): 5.92 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 8.03 ft.

One Casing Volume= [redacted] liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.92 ft.
Field calculated -- 1 casing vol.*: 4.95 liters
Field calculated -- 3 casing vol.*: 14.8 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1322	0.0	0.0	300mem	15.0	4.63	8.42	70.0	-31	3.06	N	6.45	
1325	0.9	0.18		14.9	5.16	8.41	53.2	-61	2.35	N	6.48	
1328	1.8	0.36		14.9	5.69	8.41	32.7	-90	1.61	N	6.49	
1331	2.7	0.55		14.9	5.71	8.42	25.8	-105	1.17	N	6.49	
1334	3.6	0.73		14.9	5.74	8.43	17.0	-111	.98	N	6.47	
1337	4.5	0.91		14.9	5.71	8.44	14.5	-114	.94	N	6.47	
1340	5.4	1.10		14.9	5.69	8.45	13.0	-115	.93	N	6.47	
Previous Log readings												

Sample Date: 4-20-06 **Start Time:** 1345 **End Time:** 1420 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1 A5232

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.23 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M020-A-A5052	NS	X		X	X	X	X	X	X	X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

13 Bottles

Sampler: [illegible] Baker

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TBI-A5232
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 1

DATE (YYYMMDD) 2006/04/20

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JO Guy

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5233
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYYMMDD) 2006/04/20 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J D Lang

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5234
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 3

DATE (YYYMMDD) 2006/04/20 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cerny

ITSI Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 4/24/06 Time: 0600 Page: 1 of 1

Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11

Work Description: GROUNDWATER SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357

Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue

Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A

Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness

Minimum PPE Required: Level D

Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling

Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Shawn Baker		ERI			
ROBYN CHAPPLE	R Chapple	ITSI			
[illegible]		MACTEC			
Anthony S. Dealet		MACTEC			
Brian Dee		ITSI			
Dennis Hill	D. Hill	ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name (printed)) [signature] (Signature)

Site Superintendent: JD LENZEN (Name (printed)) JD Lenzen (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/24/06

REPORT NO 209

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Site 2
	Fifteen wells sampled and sent to the lab
	IR Site 2 is 74% complete
	Base-wide groundwater sampling is 32% complete

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Signature 4/24/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/24/06
FIELD ACTIVITY DAILY LOG	Report	209

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	638
Total Work Hours On Job Site From Start Of Construction	718

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Site 2
Fifteen wells were sampled at Site 2, eleven wells remain to be sampled
All samples were shipped to lab for analysis.

Action Items:

None

Visitors on Site

See Tailgate

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

None

WEATHER CONDITIONS: Cold, overcast, rainy

SIGNATURE: Gerard A. Celli DATE: 4/24/06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 04/24/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213		Project No.: 02 125.11
Work Description: Monitoring well monitoring			
Subcontractors/Visitors:			
Weather: Overcast. Cool.			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: Arrived on site. Loaded truck with equipment and supplies.
0630: Attended morning safety meeting, calibrated field instruments.
0700: Moved to site 2 set up on M022E
0718: Started purge on M022E.
0740: Collected sample M022-E-A-5059
0750: Collected field duplicate M022-E-A5060
0919: Set up and started purge on M014-B
0940: Collected sample M014-B-A5042
1042: Set up and Started purge on M020-E
1100: Collected sample M020-E-A5054
1130: Lunch
1200: Dropped samples off the field office
1247: Started purge on M037-B
1315: Collected sample M037-B-A5072 plus MS/MSD volume.
1430: Completed sample collection
1500: Delivered samples to the field office completed daily paperwork, packaged samples for shipment.

Prepared by:	B. Sell	Signature:		Date:	4/24/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4/24/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: GW Sampling			
Subcontractors/Visitors: ITSI			
Weather: Cloudy 56°F			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 at Trailer
0630 H&S Briefing - Collect bottles and sampling supplies
0700 @ M023-B DTW = 3.58' Sample # M023-B-A5062 @ 0755
LEL # 9950049 PID # 104558
0835 @ M023-C DTW = 2.66' Sample # M023-C-A5063 @ 0935
1020 @ M021-C DTW = 3.12' Sample # M021-C-A5056 @ 1105
1145 @ M021-F DTW = 4.05' Sample # M021-F-A5057 @ 1230
1300 @ M036-A DTW = 1.20' Sample # M036-A-A5067 @ 1340

Prepared by:	Chad Simpson	Signature:		Date:	4/24/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.24.06	Page of
Client: Navy	Contract No.: N68711-02-D-8213		Project No.: 02 125.11

Work Description: Site 2 Well Sampling

Subcontractors/Visitors:

Weather: Overcast.

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

6:00-7:00 - Tailgate Safety Mtg., Calibration and Loading of equipment.
07:00-8:10 - Purged & Sampled well M019-E
08:10-9:15 - Purged & sampled well M023-E.
09:30-10:50 - Purged & sampled well M024-A.
10:50-11:30 - Purged & sampled well M024-E.
11:45-12:45 - Loaded/Unloaded truck and took lunch.
13:00-13:50 - Purged & sampled well M037-E.
13:55-14:45 - Purged & sampled well M036-E & field duplicate
15:00- Back to trailer and unloaded truck.
15:30- Offsite.

RC

Prepared by:	R. CHAPPLE	Signature:	R. Chapple	Date:	4.24.06

Innovative Technical Solutions, Inc.
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Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4545**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M019-E-A5051	4.24.06	7:45									X						X	X	X	X	X	X	X				

RC

SAMPLED BY: R. Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4-24-06 11:30 (Date and Time)
RECEIVED BY: AARON GREWER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4548
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M020-E-A5054	4/24/06	1100									X						X	X	X	X	X	X	X				

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian P. Dee (Printed Name) Brian P. Dee (Signature)
ITSI (Company) 4/24/06 1500 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

2.8°C Ambient (radiologicals)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4550**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M021-C-A5056	4/24/06	1105				X	X	X			X						X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Dolet
SIGNATURE: C W

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — Printed Name; Signature
Company: TTST; Date and Time: 4/24/06 1530

RECEIVED BY: Tony Cojas — Printed Name; Signature

RELINQUISHED BY: _____ — Printed Name; Signature
Company; Date and Time

RECEIVED BY: _____ — Printed Name; Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4551**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-p as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 LA	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M021-E-A5057	4/4/06	1230									X						X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Reid
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — CHS
Printed Name — Signature
ITSI — 4/24/06 1655
Company — Date and Time

RECEIVED BY: Troy Windsor — Troy Windsor
Printed Name — Signature

RELINQUISHED BY: _____ Printed Name — Signature
_____ Company — Date and Time

RECEIVED BY: _____ Printed Name — Signature

3.6°C
TAW 4-24-06

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4553**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M022-E-A5059	4/24/06	0750 ~~0710~~	GE								X						X	X	X	X	X	X	X				
M022-E-A5060	4/24/06	~~0750~~ 0740	GE								X						X	X	X	X	X	X	X				

SAMPLED BY: B. Dee
SIGNATURE: Brian Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: BRIAN DEE — Brian Dee
Printed Name — Signature
ITSI — 4/24/06 1100
Company — Date amd Time

RECEIVED BY: AARON GRENIER — Aaron Grenier
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature
_____ — _____
Company — Date amd Time

RECEIVED BY: _____ — _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4555**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M023-B-A5062	4.24.06	0755			X	X	X	X			X						X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / A. Bolt
SIGNATURE: CW

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — CW
Printed Name — Signature
ITSI — 4/24/06 1530
Company — Date and Time

RECEIVED BY: Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____
Printed Name — Signature
Company — Date and Time

RECEIVED BY: _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4556
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			- HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M023-C-A5063	4/24/06	0930				X	X	X			X						X	X	X	X	X	X	X				

SAMPLED BY: C. Simpson / J. Dalat
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) — CWS (Signature)
ITSI (Company) — 4/24/06 1530 (Date and Time)

RECEIVED BY: Tony Lyz (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

2.9°C & ambient (radiologicals)
740 4-24-06

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4557**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M023-E-A5064	4-24-06	8:50					X				X				--		X	X	X	X	X	X	X				

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
LTSI (Company) 4-24-06 11:30 (Date and Time)
RECEIVED BY: Anna Rea (Printed Name) AARON GRENIER (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4558**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M024-A-A5065	4.24.06	10:20				X	X	X	X	X	X																
										RC																	

SAMPLED BY: R Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.24.06 11:30 (Date and Time)
RECEIVED BY: Affon Crowley (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4559**
Page: 1 of 1

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M024-E-A5066	4.24.06	11:00				X	X	X	X	X	X						X	X	X	X	X	X	X				
													RC														

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.24.06 11:30 (Date and Time)

RECEIVED BY: AARON GRAVES (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4560
Page: 1 of

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-g as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M036-A-A5067	4/24/06	1340				X	X	X	X	X	X			X	X	X										X	

SAMPLED BY:
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — Printed Name; Signature
EFST — Company
4/24/06 1530 — Date and Time

RECEIVED BY: Tony Rojas — Printed Name; Signature

RELINQUISHED BY: — Printed Name; Signature
Company; Date and Time

RECEIVED BY: — Printed Name; Signature

3.9°C
JAW 4.24.06

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4562
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	—	NaOH+ Za AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
-6 M036-E-A5069	4.24.06	14:12									X						X	X	X	X	X	X	X				
-7 M036-E-A5070	4.24.06	14:27									X						X	X	X	X	X	X	X				

RC

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.24.06 15:30 (Date and Time)

RECEIVED BY: Tony Rios (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

3.8°C
4-24-06

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4564**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			9	2	6	6	3	6	1	1	2	1	1	2	2	2	2	4	2	2	2	2	2	1	1	2	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M037-B-A5072	4/24/06	1315				X	X	X			X			X	X	X	X	X	X	X	X	X	X			X	MS/MSD

SAMPLED BY: D. Dee
SIGNATURE: Brian Dee
RELINQUISHED BY: Brian Dee — Printed Name — Signature
ITSE — Company
4/24/06 1500 — Date amd Time
RECEIVED BY: Tony Rojas — Printed Name — Signature

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: _____ Printed Name _____ Signature
_____ Company _____ Date amd Time
RECEIVED BY: _____ Printed Name _____ Signature

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4565
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
-8 M037-E-A5073	4-24-06	13:35									X		RC				X	X	X	X	X	X	X				

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4-24-06 1530 (Date and Time)

RECEIVED BY: Troy Windsor (Printed Name) [signature] 4-24-06/1655 (Signature)
(Company) (Date and Time)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

3.6°C
Dew 4-24-06

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4714
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB1-A5235	4/24/06	700	X																								
M014-B-A5042	4/24/06	0740	X		X																						
M037-B-A5072	4/24/06	1315	X		X																						MS/MSD

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) — Brian P. Dee (Signature)
ITST (Company) — 4/24/06 1500 (Date and Time)

RECEIVED BY: Tony Lopas (Printed Name) — Tony Lopas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4715
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5236	4/24/06	700	X																								
M024-A-A5065	4-24-06	10:20	X		X																						
M024-E-A5066	4-24-06	11:00	X		X																						

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:
*M024-A-A5065

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4-24-06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4716**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCl~~ Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
TB3-A5237	~~4/24/06~~	700	X																								
MW23-B-A5062	4/24/06	0755	X		X																						
MW23-C-A5063	4/24/06	0930	X		X																						
MW31-C-A5056	4/24/06	1105	X		X																						
MW36-A-A5067	4/24/06	1240	X		X																						
~~TB3-A5238~~		~~1315~~																									

SAMPLED BY: C. Simpson / A. Orbit
SIGNATURE: CW

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CW (Signature)
ITSI (Company) 4/24/06 1530 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M014-B**

Purge Date: 4.24.06

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 59 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104577	0.0
LEL:	0423014	0.0
02:		20.9

Measured Well Depth: 69.79 ft.
Depth to Water (DTW): 3.12 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 66.6.7 ft.

One Casing Volume= [redacted] 41.13 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.12 ft.
Field calculated -- 1 casing vol.*: 41.13 liters
Field calculated -- 3 casing vol.*: 123.39 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0919	0.0	0.0	300mL/M	16.5	40.9	7.22	-5.4	~~-66~~ -73	2.47	N	3.22	
0922	0.9	.02		16.7	41.7	7.07	-7.2	-109	1.02	N	3.24	
0925	1.8	.04		16.8	46.8	7.05	19.2	-94	.72	N	3.26	
0928	2.7	.06		16.9	46.9	7.06	14.3	-88	.53	N	3.27	
0931	3.6	.08		16.9	46.7	7.07	6.5	-84	.47	N	3.25	
Previous Log readings												

Sample Date: 4-24-06 **Start Time:** 0940 **End Time:** 1009 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TBI A5235

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.10 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M014-B-A5042 NS	X		X	X	X	X			X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

20 Bottles

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2

Event: Spring2006

Purge Date: 4/24/06

Well Number: **M021-C**

Weather: Sunny, (Cloudy), Rain, Windy, Hot Temperature: 57°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104556	2.6
LEL:	995049	0
02:		0

Measured Well Depth: 92.00 ft.

Depth to Water (DTW): 3.12 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 88.88 ft.

One Casing Volume= [redacted] 54.84 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 3.12' ft.

Field calculated -- 1 casing vol.*: 54.841 liters

Field calculated -- 3 casing vol.*: 164.5322 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1035	1.5	.03	.3/min	16.25	10.5	7.17	0	-193	2.21	Y	3.15	
1040	3.0	.05	.3/min	16.30	10.6	7.13	49.7	-193	1.48	N	3.17	
1045	4.5	.06	.3/min	16.26	10.4	7.12	0	-193	1.13	N	3.18	
1050	6.0	.11	.3/min	16.24	10.3	7.12	0	-195	0.81	N	3.19	
1055	7.5	.14	.3/min	16.23	10.4	7.12	24.5	-193	0.72	N	3.21	
1100	9.0	.16	.3/min	16.24	10.4	7.11	12.4	-192	.76	N	3.21	
Previous Log readings												

Sample Date: 4/24/06 **Start Time:** 1105 **End Time:** 1145

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5237 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100ml mL/min

Final Depth to Water 3.47 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M021-C-A5056	NS	X		X	X	X	X			X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

20 Bottles

Sampler: C. Sun (A. Nolet)

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M019-E**

Purge Date: 4.24.06

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 45 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 40.10 ft.
Depth to Water (DTW): 7.20 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 32.9 ft.

One Casing Volume= [redacted]: 20.3 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 7.20 ft.
Field calculated -- 1 casing vol.*: 20.3 liters
Field calculated -- 3 casing vol.*: 60.9 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:10			.4	16.98	0.478	6.12	0	264	8.46	N	7.30	
7:15	2	0.10	.4	17.25	0.389	6.74	0	241	7.75	N	7.30	
7:20	4	0.19	.4	17.30	0.481	6.99	0	229	7.46	N	7.30	
7:25	6	0.30	.4	17.37	58.6	6.78	0	164	0.73	N	7.25	
7:28	7.2	0.35	.4	17.35	61.9	6.83	0	40	0.35	N	7.20	
7:31	8.4	0.41	.4	17.33	64.9	6.85	0	-1	0.19	N	7.15	
7:34	9.6	0.47	.4	17.32	65.4	6.36	0	-19	0.08	N	7.10	
7:37	10.8	0.53	.4	17.30	64.10	6.87	0	-9	0.20	N	7.05	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.24.06 **Start Time:** 7:45 **End Time:** 8:05 **Equipment Blank Collected:** N/A *1/day/team when portable pump (or other non disposable reusable equipment) is used* **Trip Blank Collected:** TBL-A5236 *Complete a Collected Sample Form for each blank collected.*

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 7.05 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M019-E-A5051 NS									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

10 Bottles

Comments:

Sampler: R. Chandler

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-24-06

Well Number: M020-E

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 55 ° Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104377	0.0
LEL:	0423014	0.0
02:		20.8

Measured Well Depth: 34.82 ft.
Depth to Water (DTW): 5.06 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 29.76 ft.

One Casing Volume=[redacted] 18.36 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.06 ft.
Field calculated -- 1 casing vol.*: 18.36 liters
Field calculated -- 3 casing vol.*: 55.08 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1042	0.0		300 ml/m	16.3	62.3	7.02	-2.1	-197	1.93	N	5.37	
1045	.9	.04		16.4	62.9	6.90	-6.4	-205	.92	N	5.38	
1048	1.8	.09		16.4	63.1	6.90	-7.5	-209	.69	N	5.41	
1051	2.7	.14		16.4	63.0	6.89	-7.8	-210	.62	N	5.44	
Previous Log readings												

Sample Date: 4-24-06 **Start Time:** 1100 **End Time:** 1110 **Equipment Blank Collected:** _____ **Trip Blank Collected:** _____

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** _____ mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.49 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M020-E-A5054 NS									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

10 Bottles

Sampler: Sha Bailey

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2 — **Event: Spring2006** — Purge Date: 4/24/06

Well Number: **M021-E**

Weather: Sunny, Cloudy, Rain, Windy, Hot — **Temperature:** 50°F — **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104558	0
LEL:	9950049	0
02:		6

Measured Well Depth: 36.50' ft.
Depth to Water (DTW): 4.05 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 32.45 ft.

One Casing Volume=[redacted] 20.02 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.05 ft.
Field calculated – 1 casing vol.*: 20.02 liters
Field calculated -- 3 casing vol.*: 60.06 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	1150	1.5	.07	.3/min	16.46	42.1	7.12	2.6	-187	2.23	N	4.05	
10	1155	3.0	.15	.3/min	16.45	42.3	7.11	0	-187	1.20	N	4.07	
15	1200	4.5	.22	.3/min	16.46	42.4	7.11	0	-187	0.93	N	4.09	
20	1210	6.0	.30	.3/min	16.47	42.5	7.10	0	-188	0.79	N	4.11	
	1215	7.5	.37	.3/min	16.50	42.6	7.10	0	-189	0.69	N	4.12	
	1220	9.0	.45	.3/min	16.53	42.7	7.09	0	-190	0.73	N	4.15	
Previous Log readings													

Sample Date: ~~1250~~ 4/24/06 **Start Time:** ~~1300~~ 1230 **End Time:** 1240 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB-A5237

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.26 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M021-E-A5057 NS									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

10 Bottles

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2

Event: Spring2006

Well Number: **M022-E**

Purge Date: 4-24-06

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 50 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104577	0.0
LEL:	0423014	0.0
02:	0423014	20.9

Measured Well Depth: 37.53 ft.

Depth to Water (DTW): 3.32 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 34.21 ft.

One Casing Volume= [redacted]: 21.1 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 34.21 ft.

Field calculated -- 1 casing vol.*: 21.1 liters

Field calculated -- 3 casing vol.*: 63.3 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0718	0.0	0.0	300ml/m	15.9	45.3	6.29	93.9	-159	3.30	N	3.35	
0721	0.9	.04		15.9	463	6.65	42.7	-179	1.08	N	3.36	
0724	1.8	.08		16.0	46.2	6.77	24.3	-182	.76	N	3.27	
0727	2.7	.12		16.0	46.1	6.80	65.2	-182	.65	N	3.27	
0730	3.6	.17		16.0	46.1	6.81	16.9	-181	.58	N	3.28	
Previous Log readings												

Sample Date: 4-24-06 **Start Time:** 0740 **End Time:** 0805

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: _____ Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** ~~100~~ mL/min

Final Depth to Water 3.31 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M022-E-A5059	NS									X						X	X	X	X	X	X	X			
M022-E-A5060	FD									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: FD @ 0750

20 Bottles

Sampler: SH Bakey

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2 — **Event: Spring2006** — Purge Date: 4/24/06

Well Number: **M023-B**

Weather: Sunny, (Cloudy), Rain, Windy, Hot — Temperature: 54°F — Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104554	0.2
LEL:	9950049	0
02:	9950049	0

Measured Well Depth: 93.40' ft.
Depth to Water (DTW): 3.58' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 89.82 ft.

One Casing Volume= [redacted]: 55.421 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.58' ft.
Field calculated -- 1 casing vol.*: 55.421 liters
Field calculated -- 3 casing vol.*: 166.262 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	0720	1.5	.07	.3 l/min	16.07	13.6	6.63	6	-203	2.75	Y	3.56	
10	0725	3.0	.65	.3 l/min	16.29	13.7	6.86	108	-197	1.60	Y	3.60	
15	0730	4.5	.06	.3 l/min	16.35	13.6	6.91	90	-193	1.34	Y	3.61	
20	0735	6.0	.11	.3 l/min	16.36	13.5	6.94	94.3	-196	1.22	Y	3.61	
25	0740	7.5	.14	.3 l/min	16.39	13.5	6.97	116	-192	1.13	Y	3.64	
30	0745	9.0	.16	.3 l/min	16.42	13.6	7.00	78.1	-192	1.06	Y	3.64	
33	0748	11.5	.21	.3 l/min	16.46	13.6	7.01	20	-197	1.02	N	3.66	
36	0751	13.0	.23	.3 l/min	16.45	13.6	7.02	13	-197	1.04	N	3.66	
Previous Log readings													

Sample Date: 4/24/06 **Start Time:** 0755 **End Time:** 0830 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB-A5237

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.72' **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M023-B-A5062	NS	X		X	X	X	X			X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 20 Bottles Sampler: C. Simpson / A. Ardet

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M023-C**

Purge Date: 4/24/06

Weather: Sunny, ~~Cloudy~~ (circled: Cloudy), Rain, Windy, Hot   **Temperature:** 56°F   **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104559	3.4
LEL:	995049	0
02:	" "	0

Measured Well Depth: 107.00' ft.

Depth to Water (DTW): 2.66' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 104.34 ft.

.367

One Casing Volume= [redacted] x 3.7854: ~~104.34~~ 217.43 liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: 2.66' ft.

Field calculated -- 1 casing vol.*: 217.43 liters

Field calculated -- 3 casing vol.*: 652.291 liters

FIELD PARAMETERS	Time	Volume Removed: Liters	Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	0855	1.5	.01	.3/min	16.11	11.8	7.73	0	-128	2.95	N	2.67	
10	0900	3.0	.01	.3/min	16.22	11.9	7.62	0	-165	1.59	N	2.73	
15	0905	4.5	.02	.3/min	16.32	13.0	7.42	0	-165	.97	N	2.76	
20	0910	6.0	.03	.3/min	16.36	13.3	7.36	0	-171	0.52	N	2.79	
25	0915	7.5	.03	.3/min	16.40	13.4	7.33	0	-174	0.48	N	2.81	
	0920	9.0	.04	.3/min	16.44	13.4	7.32	0	-180	0.48	N	2.83	
	0925	11.5	.05	.3/min	16.42	13.5	7.34	0	-180	0.50	N	2.86	
Previous Log readings													

Sample Date: 4/24/06   **Start Time:** 0930   **End Time:** 1000   **Equipment Blank Collected:** ______   **Trip Blank Collected:** TB3-A5237

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic   **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 3.01   **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE																									
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M023-C-A5063	NS	X		X	X	X	X			X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered   *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: ______

20 Bottles

Sampler: C. Sup... / A. Bales

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.24.06

Well Number: M023-E

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 50 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	/	0
LEL:	/	0
02:	/	0

Measured Well Depth: 35.44 ft.
Depth to Water (DTW): 3.12 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 32.32 ft.

One Casing Volume=[redacted] 19.94 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.12 ft.
Field calculated -- 1 casing vol.*: 19.94 liters
Field calculated -- 3 casing vol.*: 59.82 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
8:22			.4	16.86	1.88	8.0	69.2	-139	2.24	N	4.80	
8:25	1.2	0.06	.4	17.24	1.75	7.74	70.2	-139	0.85	N	5.90	
8:28	2.4	0.12	.4	17.29	1.89	7.64	86.4	-135	0.55	N	6.16	
8:31	3.6	0.18	.4	17.44	5.19	7.14	44.3	-120	0.26	N	6.40	
8:34	4.8	0.24	.4	17.47	7.98	7.04	46.6	-114	0.16	N	6.38	
8:37	6	0.30	.4	17.49	9.98	7.00	20.8	-120	0.20	N	6.31	
8:40	7.2	0.36	.4	17.49	15.60	6.96	20.5	-122	0.09	N	6.25	
8:43	8.4	0.42	.4	17.50	17.20	6.91	28.7	-120	0.04	N	6.16	
8:46	9.6	0.48	.4	17.49	17.71	6.86	7.1	-116	0.0	N	6.12	
8:49	10.8	0.54	.4	17.50	18.14	6.83	6.7	-115	0.0	N	6.08	Stabilized
Previous Log readings												

Sample Date: 4.24.06 **Start Time:** 8:50 **End Time:** 9:10 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TBZ-A5236

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.08 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M023-E-A5064 NS					X				X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. *Samples for metals are filtered* **Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)*

Comments: **11 Bottles** Sampler: RChapel

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.24.06

Well Number: **M024-A**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 50 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 14.18 ft.
Depth to Water (DTW): 4.56 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.62 ft.

One Casing Volume=[redacted] 5.94 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.56 ft.
Field calculated -- 1 casing vol.*: 5.94 liters
Field calculated -- 3 casing vol.*: 17.82 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
9:50			.4	18.04	3.43	6.58	7.6	-87	1.82	N	4.95	
9:55	2.0	0.34	.4	18.05	3.19	6.56	5.5	-96	0.80	N	5.10	
10:00	4.0	0.67	.4	17.86	3.31	6.56	7.8	-101	0.40	N	5.20	
10:03	~~5.2~~	0.88	.4	17.80	3.48	6.58	10.7	-104	0.26	N	5.25	
10:06	6.4	1.08	.4	17.80	3.58	6.58	13.5	-105	0.22	N	5.27	
10:09	7.6	1.28	.4	17.79	3.78	6.59	12.8	-106	0.15	N	5.31	
10:12	8.8	1.48	.4	17.76	3.583	6.59	9.2	-107	0.11	N	5.35	
10:15	10.0	1.68	.4	17.74	3.81	6.59	4.7	-108 RC	0.09	N	5.36	STABILIZED
Previous Log readings												

Sample Date: 4.24.06 **Start Time:** 10:20 **End Time:** 10:50 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5236

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.36 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M024-A-A5065	NS	X		X	X	X	X	X	X	X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

13 Bottles

Sampler: R. C[illegible]

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.24.06

Well Number: **M024-E**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 50 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 32.25 ft.
Depth to Water (DTW): 4.10 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 28.15 ft.

One Casing Volume= [redacted] 17.37 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.10 ft.
Field calculated -- 1 casing vol.*: 17.37 liters
Field calculated -- 3 casing vol.*: 52.11 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
10:40			.4	18.71	3.16	7.30	0	-125	3.19	N	4.24	
10:43	1.2	0.07	.4	19.21	2.38	7.12	0	-138	1.03	N	4.33	
10:46	2.4	0.14	.4	19.27	2.40	7.11	0	-143	0.55	N	4.30	
10:49	3.6	0.21	.4	19.29	2.37	7.11	0	-147	0.33	N	4.31	
10:52	4.8	0.28	.4	19.27	2.43	7.12	0	-151	0.18	N	4.31	stabilized
							RC					
Previous Log readings												

Sample Date: 4.24.06 **Start Time:** 11:00 **End Time:** 11:30 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5236

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.31 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M024-E-A5066 NS	X		X	X	X	X	X	X	X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

22 Bottles

Sampler: R. Chang

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/24/06

Well Number: **M036-A**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104558	49
LEL:	9950049	18
02:	11 11	0

Measured Well Depth: 14.60 ft.
Depth to Water (DTW): 1.20 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 13.40 ft.

One Casing Volume=[redacted] 8.27 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 1.20 ft.
Field calculated -- 1 casing vol.*: 8.27 liters
Field calculated -- 3 casing vol.*: 24.81 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
1310	1.5	.18	.3l/min	17.58	11.70	6.76	54.5	-101	2.11	Y	1.25	
1315	3.0	.36	.3l/min	17.47	9.90	6.67	13.1	-108	1.49	Y	1.26	
1320	4.5	.54	.3l/min	17.46	9.20	6.63	16.9	-112	1.31	Y	1.29	
1325	6.0	.73	.3l/min	17.43	8.47	6.61	49.1	-115	1.19	Y	1.36	
1330	7.5	.91	.3l/min	17.41	8.28	6.59	32.6	-117	1.12	Y	1.39	
1335	9.0	1.09	.3l/min	17.46	8.27	6.58	33.5	-119	1.11	Y	1.40	
Previous Log readings												

Sample Date: 4/24/06 **Start Time:** 1340 **End Time:** 1415 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5237

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 1.49 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M036-A-A5067 NS	X		X	X	X	X	X	X	X			X	X	X										X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____ **17 Bottles** Sampler: C. Stapp

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.24.06

Well Number: **M036-E**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 29.60 ft.
Depth to Water (DTW): 1.93 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 27.67 ft.

One Casing Volume=[redacted]4: 17.07 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 1.93 ft.
Field calculated -- 1 casing vol.*: 17.07 liters
Field calculated -- 3 casing vol.*: 51.21 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
13:57			.4	19.14	49.2	7.04	0	-153	2.87	N	2.30	
14:00	1.2	0.07	.4	19.16	46.9	7.03	0	-165	1.29	N	2.35	
14:03	2.4	0.14	.4	19.11	46.4	7.02	0	-172	0.71	N	2.37	
14:06	3.6	0.21	.4	19.09	46.5	7.02	0	-174	0.48	N	2.40	
14:09	4.8	0.28	.4	19.08	46.8	7.02	0	-178	0.29	N	2.40	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.24.06 **Start Time:** 14:12 **End Time:** 14:45 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5236

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.40 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	.1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M036-E-A5069	NS									X						X	X	X	X	X	X	X			
M036-E-A5070	FD									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: **20 Bottles** Sampler: R. Chandler

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-24-06

Well Number: **M037-B**

Weather: Sunny, (Cloudy), Rain, Windy, Hot Temperature: 56 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

3in .367

One Casing Volume [redacted] 115.14 liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: 4.43 ft.

Field calculated -- 1 casing vol.*: 115.14 liters

Field calculated -- 3 casing vol.*: 345.42 liters

Personal Air Monitoring:	Meter ID#	Results
PID:	104577	0.0
LEL:	0423014	0.0
02:		20.7

Measured Well Depth: 87.31 ft.

Depth to Water (DTW): 4.43 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 82.88 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1247	0.0	0.0	300 ml/m	17.4	8.24	7.56	-5.5	-195	1.13	N	4.75	
1250	.9	.0078		17.4	8.54	7.29	-6.9	-193	1.03	N	4.80	
1253	1.8	.015		17.4	8.34	7.20	8.8	-189	.82	N	4.82	
1256	2.7	.023		17.5	8.36	7.16	0.0	-185	.69	N	4.89	
1259	3.6	.031		17.4	8.37	7.13	43.2	-184	.57	N	4.90	
Previous Log readings												

Sample Date: 4-24-06 **Start Time:** 1315 **End Time:** 1424

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB1A5235 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 6.09 **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	9	2	6	6	3	6	1	1	2	1	1	2	2	2	2	4	2	2	2	2	2	1	1	2
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL
M037-B-A5072 NS	X		X	X	X	X			X			X	X	X	X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS/MSD

24 Bottles

Sampler: SL

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-24-06

Well Number: **M037-E**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 29.38 ft.
Depth to Water (DTW): 5.26 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 24.12 ft.

One Casing Volume [redacted]: 14.88 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.26 ft.
Field calculated -- 1 casing vol.*: 14.88 liters
Field calculated -- 3 casing vol.*: 44.64 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
13:24			.4	18.95	59.9	6.89	39.0	-135	2.21	N	6.44	
13:27	1.2	0.08	.4	18.87	59.7	6.89	26.8	-149	0.99	N	7.15	
13:30	2.4	0.16	.4	18.81	59.8	6.89	24.9	-153	0.69	N	7.44	
13:33	3.6	0.24	.4	18.78	59.8	6.89	23.4	-156	0.45	N	7.73	Stabilized
							RC					
Previous Log readings												

Sample Date: 4-24-06 **Start Time:** 13:35 **End Time:** 13:50 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A52336

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.73 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M037-E-A5073 NS									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 10 Bottles

Sampler: R. Chang

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4537**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M014-B-A5042	4/24/06	0940				X	X	X			X						X	X	X	X	X	X	X				

SAMPLED BY: B. Dee
SIGNATURE: Brian Dee
RELINQUISHED BY: Brian Dee (Printed Name) Brian Dee (Signature)
ITSI (Company) 4/24/06 1500 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

2.8°C ambient (radiologicals) 4-24-06

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB1-45235
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYMMDD) 2006/04/24 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cey

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5236
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 2

DATE (YYYMMDD) 2006/04/24

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cruz

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB-A537
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 3

DATE (YYYMMDD) 2006/04/24

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cruz

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 04/25/06 Time: @ 6:00 Page: 1 of 1
Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11
Work Description: Groundwater Sampling

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357
Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue
Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A
Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling
Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Shawn Baker		ERI			
Brian Lee		ITSI			
R CHAPPLE	R Chapple	ITSI			
[illegible]		MACTEC			
Anthony S Drolet		MACTEC			
Dennis Hill	D. Hill	ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name (printed)) (Signature)
Site Superintendent: JD LENZEN (Name (printed)) JD (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/25/06
REPORT NO 210

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater samples collected at IR Sites 2, 3 and 14
	Sampling at IR Site 2 is 95% complete
	Sampling at IR Site 3 is 12% complete
	Sampling at IR Site 14 is 100% complete
	Base-wide sampling is at 48% completion

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

[signature] 4/25/06
AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/25/06
FIELD ACTIVITY DAILY LOG	Report	210

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	718
Total Work Hours On Job Site From Start Of Construction	798

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 2, 3 and 14
Nine wells sampled at IR Site 2
Four wells sampled at IR Site 3
Two wells sampled at IR Site 14
Fifteen total wells were sampled and shipped to the lab for analysis.

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Morning clouds, sunny and breezy afternoon

SIGNATURE: Gerard Schelle DATE: 4/25/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4/25/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: GW Sampling			
Subcontractors/Visitors: ITSI			
Weather: Cloudy - showers in forecasts			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 at Trailer - calibrate meters. PID# 104565 CEL# 04231014

0630 H&S Briefing, collect supplies at trailer for daily activities.

0700 @ M038-A DTW = 5.20' sample # M038-A-A5074

0900 well vault dry moved to next well

0945 @ M038-E DTW = 7.20' Sample # M038-E-A5076 @ 1015

1045 well vault dry - low flow final on all sample containers

1145 @ M038-B DTW = 9.70' Sample # M038-B-A5075 @ 1220

1500 @ Trailer to QC/check in samples.

Prepared by:	C. Simpson	Signature:		Date:	4.25.06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4/25/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description:			
Subcontractors/Visitors:			
Weather:			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: arrived on site, loaded truck with field equipment - calibrated instruments
0630: attended tailgate safety meeting
0700: Moved to site 2
0745: Set up at M020-B
0803: Started purge on M020-B
0825: Collected sample M020-B-A5053
0920: Set up at M022-A
0938: Started purge on M022-A-
0955: Collected sample M022-A-A5058
1023: set up and started purge on well M023-A
1040: Collected sample ~~Collected~~ M023-A-A5061
1217: Set-up and started purge on M021-A
1250: Collected sample M021-A-A5055
1400: Set up and started purge on well 398-MW4
1425: Collected sample 398-MW4-A5081
1445: delivered samples back to the field office
1500: Completed field paperwork.

Prepared by:	D. Loo	Signature:		Date:	4/25/06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.25.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Well Sampling at Site's 2, 14 and 3			
Subcontractors/Visitors:			
Weather: Cloudy			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-07:00 - Tailgate Safety Mtg, calibration & loading of equipment.
07:15-08:25 - Purged & sampled Well # M037-A in Site 2.
09:00-10:15 - Purged and sampled well # M036-B in site 2.
10:30-11:20 - Purged & sampled well # M14-01 in site 14. This well was bringing up red sediment. We purged until 1 casing volume even though we stabilized before that point.
11:25-11:55 - Purged & Sampled Well # M101-A in site 14.
12:00-13:00 - Unloaded truck, took lunch and reloaded truck.
13:00-14:15 - Purged & sampled well # 372-MW1 in site 3.
14:20-14:45 - Purged & Sampled well # D03-02 in site 3.
14:50-15:10 - Purged & sampled Well # D03-03 in site 3.
15:15-16:00 - Unloaded equipment. Offsite

RC

Prepared by:	R. Chapple	Signature:	R. Chapple	Date:	4-25-06

Innovative Technical Solutions, Inc.
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Walnut Creek, California 94598
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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4547**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M020-B-A5053	4/25/06	0825				X	X	X			X						X	X	X	X	X	X	X				
~~M020-B-A5~~ BD																											

SAMPLED BY: B. Dee
SIGNATURE: Brian F. Dee
RELINQUISHED BY: Brian Dee — Brian F. Dee
Printed Name — Signature
ITSI — 4/25/06 1100
Company — Date amd Time
RECEIVED BY: AARON GREWER — A. Grewer
Printed Name — Signature

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: _____ Printed Name _____ Signature
_____ Company _____ Date amd Time
RECEIVED BY: _____ Printed Name _____ Signature

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4554**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M023-A-A5061	4/25/06	1040				X	X	X	X	X	X																Ms 540Cs

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee
RELINQUISHED BY: Brian Dee (Printed Name) Brian P. Dee (Signature)
ITSI (Company) 4/25/06 1100 (Date amd Time)
RECEIVED BY: ANN GRENIER (Printed Name) (Signature)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4566**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			9	2	6	6	3	6	3	3	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	CS
M038-A-A5074	4/25/06	0745				X	X	X	X	X	X			X	X	X										X	MS/MSD

SAMPLED BY: C. Simpson / A. Ablett
SIGNATURE: CS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — CS
Printed Name — Signature
ITSI — 4/25/06 1530
Company — Date and Time

RECEIVED BY: Tony Rojas — TR
Printed Name — Signature

RELINQUISHED BY: _____
Printed Name — Signature
Company — Date and Time

RECEIVED BY: _____
Printed Name — Signature

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4567**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M038-B-A5075	4.25.06	1220				X	Y	Y			Y			Y	Y	Y	X	X	X	X	X	X	X			X	

SAMPLED BY: C. Simpson / A. Pratt
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) / (Signature)
ETSI (Company)
4/25/06 1530 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) / (Signature)

RELINQUISHED BY: (Printed Name) / (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) / (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4571**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
372-MW1-A5079*	4.25.06	1345				X					X			X	X	X										X	
372-MW1-A5080*	4.25.06	1355				X					X			X	X	X										X	
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.25.06 15:00 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4572**
Page: ____ of ____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
398-MW4-A5081*	4/25/06	1425				X					X			X	X	X										X	

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) — Brian P. Dee (Signature)
ITSI (Company) — 4/25/06 1500 (Date and Time)

RECEIVED BY: Tony Rios (Printed Name) — (Signature)

RELINQUISHED BY: ____ (Printed Name) — (Signature)
____ (Company) — (Date and Time)

RECEIVED BY: ____ (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4574**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D03-02-A5083	4.25.06	14:37									X																
													RC														

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.25.06 15:00 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4575**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D03-03-A5084	4-25-06	15:05									X																
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4-25-06 15:30 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4717**
Page: 1 of 1

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides.	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB1-A5238	4/25/06	~~0825~~	X																								
MO20-B-A5053	4/25/06	0825	X		X																						
MO22-A-A5058	4/25/06	0955	X		X																						
MO23-A-A5061	4/25/06	1040	X		X																						
MO21-A-A5055	4/25/06	1150	X		X																						
398-MW4-A5081	4/26/06	1425	X	X	X																						

SAMPLED BY: S. See / S. Baker
SIGNATURE: Brian P. See

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian See (Printed Name) Brian P. See (Signature)
ITSI (Company) 4/26/06 1500 (Date and Time)

RECEIVED BY: Tony Rijks (Printed Name) Tony Rijks (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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(925) 946-3100 (Tel)
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4718**
Page: 1 of 1

FIELD SAMPLE ID: INFORMATION	DATE	TIME	ANALYSIS: VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5239	4.25.06	7:00	X																								
~~M037-A-A5071~~	~~4.25.06~~	~~8:05~~	~~X~~	~~X~~	~~X~~	~~RC~~																					
M037-A-A5071	4.25.06	8:05	X		X																						
M036-B-A5068	4.25.06	9:25	X		X																						
M14-01-A5185	4.25.06	11:00	X	X	X																						
M101-A-A5184	4.25.06	11:40	X	X	X																						
372-MW1-A5079	4.25.06	13:45	X	X	X																						
372-MW1-A5080	4.25.06	13:55	X	X	X																						
DO3-02-A5083	4.25.06	14:37	X																								
DO3-03-A5084	4.25.06	15:05	X																								
									RC																		

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.25.06 1530 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4719**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCL~~ unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB3-A5240	4/25/06	0700	X																								
M036-B-A5075	4/25/06	1220	X		X																						
M036-A-A5074	4/25/06	0745	X		X																						

SAMPLED BY: C. Simpson / A. Nolet
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CWS (Signature)
ITSI (Company) 4/25/06/1530 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

ITSI Innovative Technical Solutions, Inc.
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Local Address: _____

Chain-Of-Custody

Project Name and Number: ALAMEDA BW
Project Manager: ARVIND ACHARYA
Site Location: ALAMEDA PT

Laboratory Name: C.T.
Address: 2323 5th St
Berkeley CA

Contact Name: _____
Phone: _____

Date: 4/25/06
Page: 1 of 1

Sample I.D.	Date	Time	Sample Depth	No. of Containers	Sample Matrix	Analysis: 8270	Analysis: ILC	Analysis: 1L AMBER	Special Instructions/Comments / Preservative / Container Type:
M029-A-A5022	4/25/06	1315	—	1	W	X			

Sampled By: G Ellison / BD / SB
Signature: _____
Special Instructions: _____

Send Results to: _____
(w/fax #) _____

Turnaround Ti_____

Courier/Airbill No.:

Relinquished By/Affiliation:	Date:	Time:	Received By/Affiliation:	Date:	Time:
	4/25/06	1500			

Original – Laborat_____ Yellow – Field/Office

ITSI 5/02

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M020-B**

Purge Date: 4-25-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 55 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104577	0.0
LEL:	9950049	0.0
02:		20.5

Measured Well Depth: ~~13.97~~ 65.55 ft.

Depth to Water (DTW): ~~6.07~~ 5.81 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 59.74 ft.

One Casing Volume=[redacted]: 36.86 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 5.81 ft.

Field calculated -- 1 casing vol.*: 36.86 liters

Field calculated -- 3 casing vol.*: 110.58 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
803	0.0	0.0	300ml/m	15.0	5.59	6.55	332.0	186	3.56	N	5.96	
806	.9	.02		15.8	5.54	7.62	377.5	212	1.94	N	6.00	
809	1.8	.04		16.0	14.1	7.19	30.8	-196	.74	N	6.16	
812	2.7	.07		16.1	14.1	7.10	101.0	-202	.50	N	6.17	
813	3.6	.09		16.1	14.0	7.09	384.0	-205	.40	N	6.17	
816	4.5	.12		16.1	13.9	7.09	571.0	-208	.45	N	6.18	
Previous Log readings												

Sample Date: 4-25-06 **Start Time:** 0825 **End Time:** 0840 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1 A5238

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.81 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M020-B-A5053	NS	X		X	X	X	X			X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: **20 Bottles** Sampler: Shawn Baker

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M021-A**

Purge Date: 4-25-06

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 50 **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104577	0.0
LEL:	9950049	0.0
02:		20.7

Measured Well Depth: 14.29 ft.

Depth to Water (DTW): 3.83 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.46 ft.

One Casing Volume [redacted]: 6.45 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 3.83 ft.

Field calculated -- 1 casing vol.*: 6.45 liters

Field calculated -- 3 casing vol.*: 19.35 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration		0.0	(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1217	0.0	.13 MB	300 mL/M	15.1	6.28	7.94	35.1	-239	5.31	N	4.98	
1220	.9	.13		15.0	2.15	7.65	59.8	-220	1.13	N	5.57	
1223	1.8	.27		14.9	2.33	7.59	46.8	-225	.91	N	5.78	
1226	2.7	.41		14.9	2.75	7.54	36.9	-234	.70	N	5.91	
1229	3.6	.55		14.9	3.14	7.54	18.7	-242	.58	N	5.99	
1232	4.5	.69		15.0	3.53	7.56	9.3	-253	.46	N	6.00	
1235	5.4	.83		15.0	3.68	7.59	7.0	-256	.42	N	6.01	
1238	6.3	.97		15.0	3.81	7.62	3.3	-262	.37	N	6.01	
1241	7.2	1.11		14.9	3.84	7.65	.2	-269	.29	N	6.02	
1244	8.1	1.25		14.9	3.90	7.67	-1.5	-273	.25	N	6.02	
~~Previous Log readings~~												

Sample Date: 4-25-06 **Start Time:** 1250 **End Time:** 1300 **Equipment Blank Collected:** [ ] **Trip Blank Collected:** TB1 A5238

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.38 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M021-A-A5055	NS	X		X	X	X	X	X	X																

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

12 Bottles

Sampler: Sha[illegible] Baker

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-25-06

Well Number: M022-A

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 54 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104577	0.0
LEL:	9950049	0.0
02:		21.1

Measured Well Depth: 14.82 ft.
Depth to Water (DTW): 2.69 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 12.13 ft.

One Casing Volume=[redacted]: 7.48 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.69 ft.
Field calculated -- 1 casing vol.*: 7.48 liters
Field calculated -- 3 casing vol.*: 22.44 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0938	0.0	0.0	300 mL/m	14.9	30.3	7.03	1.5	-230	2.39	N	3.15	
0941	.9	.12		14.8	29.1	7.02	3.8	-287	.51	N	3.15	
0944	1.8	.24		14.8	28.9	7.02	8.7	-336	.30	N	3.12	
0947	2.7	.36		14.7	29.0	7.02	-3.0	-351	.20	N	3.10	
Previous Log readings												

Sample Date: 4-25-06 **Start Time:** 0955 **End Time:** 0915 **Equipment Blank Collected:** [redacted] **Trip Blank Collected:** TB1 A5238

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.63 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Perrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M022-A-A5058	NS	X		X	X	X	X	X	X																

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 12 Bottles Sampler: [redacted]

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M023-A**

Purge Date: 4-25-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 57 **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104577	0.0
LEL:	9950049	0.0
02:		21.0

Measured Well Depth: 13.55 ft.
Depth to Water (DTW): 3.65 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.90 ft.

One Casing Volume= [redacted]4: 6.10 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.65 ft.
Field calculated -- 1 casing vol.*: 6.10 liters
Field calculated -- 3 casing vol.*: 18.3 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1023	0.0	0.0	300mL/m	15.1	13.3	7.64	25.1	-365	3.79	Y	3.71	
1026	.9	.14		14.9	12.2	7.40	17.1	-377	.69	Y	4.87	
1029	1.8	.29		14.9	12.1	7.34	12.3	-381	.48	Y	6.63	
1032	2.7	.44		14.9	11.9	7.31	6.6	-383	.38	Y	7.20	
											~~6.88 DUP~~	
Previous Log readings												

Sample Date: 4-25-06 **Start Time:** 1040 **End Time:** 1053 **Equipment Blank Collected:** NO **Trip Blank Collected:** TB1 A5238

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.88 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M023-A-A5061 NS	X		X	X		X	X	X	X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments

12 Bottles

Sampler: Shari Baker

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.25.06

Well Number: **M036-B**

Weather: Sunny, (Cloudy) Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		17
02:		0

Measured Well Depth: 100± ft.
Depth to Water (DTW): 2.51 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 97.49 ft.

One Casing Volume= [redacted] .367 = 135.44 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 2.51 ft.
Field calculated -- 1 casing vol.*: 135.44 liters
Field calculated -- 3 casing vol.*: 406.32 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												Well depth 100± ft.
9:08			.4	18.59	18.6	7.01	803.0	-146	1.65	N	2.57	
9:11	1.2	0.008	.4	18.75	18.5	6.99	487.0	-156	0.95	N	2.59	
9:14	2.4	0.018	.4	18.73	18.7	6.98	50.6	-161	0.67	N	3.10	
9:17	3.6	0.027	.4	18.69	18.6	6.99	248.0	-163	0.57	N	3.56	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.25.06 **Start Time:** 9:25 **End Time:** 10:15 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5239

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.56 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M036-B-A5068	NS	X		X	X	X	X			X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 24 Bottles Sampler: [signature]

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.25.06

Well Number: **M037-A**

Weather: Sunny, (Cloudy), Rain, Windy, Hot Temperature: 50 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:	/	
02:	/	0

Measured Well Depth: 18.25 ft.
Depth to Water (DTW): 3.92 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 14.33 ft.

One Casing Volume=[redacted]: 8.84 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.92 ft.
Field calculated -- 1 casing vol.*: 8.84 liters
Field calculated -- 3 casing vol.*: 26.52 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:23			.4	18.51	39.0	6.69	0	-119	4.67	N	5.15	
7:28	2	0.23	.4	18.08	32.8	6.82	0	-148	1.33	N	6.39	
7:33	4	0.45	.4	17.53	23.0	6.95	0	-166	0.74	N	7.13	
7:38	6	0.68	.4	16.97	15.6	7.26	1.0	-175	0.44	N	7.78	
7:43	8	0.90	.4	16.82	14.1	7.27	0	-169	0.19	N	8.23	
7:48	10	1.13	.4	16.69	12.6	7.22	0	-175	0.02	N	8.56	
7:53	12	1.36	.4	16.61	12.2	7.17	0	-178	0.00	N	8.73	
7:58	14	1.58	.4	16.49	12.2	7.12	0	-179	0	N	8.85	Stabilized
								RC				
Previous Log readings												

Sample Date: 4.25.06 **Start Time:** 8:05 **End Time:** 8:20 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5239

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 8.85 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M037-A-A5071	NS	X		X	X	X	X	X	X	X			X	X	X										X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment:

17 Bottles

Sampler: RC

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/25/06

Well Number: **M038-A**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 52°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	16.1
LEL:	04230114	0
02:	"	0

Measured Well Depth: 14.65' ft.
Depth to Water (DTW): 5.20' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.45' ft.

One Casing Volume=[illegible] 5.831 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.20' ft.
Field calculated -- 1 casing vol.*: 5.831 liters
Field calculated -- 3 casing vol.*: 17.493 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	0710	1.5	.26	.3l/min	19.99	22.9	6.27	22.5	-189	2.01	Y	5.21	
10	0715	3.0	.51	.3l/min	19.96	14.5	6.55	1.6	-196	1.47	"	5.23	
15	0720	4.5	.77	.3l/min	19.78	7.72	6.67	39	-193	1.18	"	5.23	
20	0725	6.0	1.03	.3l/min	19.72	5.88	6.66	7.1	-190	0.99	"	5.24	
25	0730	7.5	1.29	.3l/min	19.72	5.43	6.64	0	-186	0.90	"	5.26	
30	0735	9.0	1.54	.3l/min	19.72	5.46	6.63	0	-186	0.91	"	5.26	
35	0740	10.5	1.80	.3l/min	19.73	5.45	6.60	0	-184	0.93	"	5.28	
Previous Log readings													

Sample Date: 4/25/06 **Start Time:** 0745 **End Time:** 1445 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5240

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water Dry ~~MS/MSD~~ ☒

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	9	2	6	6	3	6	3	3	2	1	1	2	2	2	2	4	2	2	2	2	1	1	1	2
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M038-A-A5074 NS	X		X	X	X	X	X	X	X			X	X	X										X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2 — **Event: Spring2006** — Purge Date: 4.25.06

Well Number: **M038-B**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 58°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	4.2
LEL:	042304	0
02:	" "	0

Measured Well Depth: 79.90' ft.
Depth to Water (DTW): 9.70' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 70.20' ft.

One Casing Volume [illegible] 97.565 146.28 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 9.70' ft.
Field calculated -- 1 casing vol.*: 146.287 liters
Field calculated -- 3 casing vol.*: ~~292.574~~ 438.861 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	1150	1.5	.01	.3/min	20.20	42.7	7.36	2.3	-158	4.22	N		
10	1155	3.0	.02	.3/min	20.00	42.7	7.21	3.9	-172	2.10	N		
15	1200	4.5	.03	.3/min	19.87	43.0	7.04	6.1	-162	1.14	N		
20	1205	6.0	.04	.3/min	19.84	43.1	6.98	5.3	-154	0.90	N		
25	1210	7.5	.05	.3/min	19.83	43.2	6.97	0	-143	0.86	N		
30	1215	9.0	.06	.3/min	19.83	43.2	6.95	0	-134	0.89	N		
Previous Log readings													

Sample Date: 4.25.06 **Start Time:** 1220 **End Time:** 1320

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: 703-A5240 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 14.67' **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M038-B-A5075	NS	X		X	X	X	X			X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____ **24 Bottles** Sampler: C. Simp A. Ortiz

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/25/06

Well Number: **M038-E**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 56°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	0.7
LEL:	042301H	0
02:	" "	0

Measured Well Depth: 24.60 ft.

Depth to Water (DTW): 7.20 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 17.40 ft.

One Casing Volume= [redacted] 10.736 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 7.20' ft.

Field calculated -- 1 casing vol.*: 10.736 liters

Field calculated -- 3 casing vol.*: 32.208 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	0950	1.5	.14	.3/min	20.23	47.4	6.49	12.2	-189	1.37	N	7.22	
10	0955	3.0	.28	.3/min	20.36	47.8	6.57	25.5	-195	0.96	N	7.25	
15	1000	4.5	.42	.3/min	20.39	47.8	6.60	2.41	-198	0.82	N	7.26	
	1005	6.0	.56	.3/min	20.39	47.6	6.61	7.60	-200	0.85	N	7.29	
	1010	7.5	.70	.3/min	20.39	47.7	6.62	12.7	-202	0.80	N	7.31	
Previous Log readings													

Sample Date: 4/25/06 **Start Time:** 1015 **End Time:** 1040 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5240

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** ~~100~~ N/A mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 20.21 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M038-E-A5076	NS									X						X	X	X	X	X	X	X			

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: [illegible] **10 Bottles** Sampler: [illegible]

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.25.06

Well Number: 372-MW1

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

0.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ~~27.00~~ 26.99 RC liters

Casing Radius (R): 2 inch

Verified Depth to Water: 1.65 ft.

Field calculated -- 1 casing vol.*: ~~27.00~~ RC 26.99 liters

Field calculated -- 3 casing vol.*: 80.97 liters

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 12.57 ft.

Depth to Water (DTW): 1.65 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.92 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
13:29			.4	16.71	0.184	7.71	0	58	4.11	N	2.17	
13:32	1.2	0.04	.4	16.56	0.180	7.51	0	59	2.37	N	2.50	
13:35	2.4	0.09	.4	16.46	0.178	7.42	0	55	1.78	N	2.70	
13:38	3.6	0.13	.4	16.43	0.178	7.40	0	53	1.63	N	2.84	
13:41	4.8	0.18	.4	16.36	0.176	7.38	0	50	1.51	N	2.84	Stabilized
								RC				
Previous Log readings												

Sample Date: 4.25.06 **Start Time:** 13:45 **End Time:** 14:15 **Equipment Blank Collected:** NA **Trip Blank Collected:** TB2-A5329

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.84 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
372-MW1-A5079	NS	X	X	X	X					X*			X	X	X									X	X
372-MW1-A5080*	FD	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 8

30 Bottles

Sampler: R. Chapple

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-25-06

Well Number: 398-MW4

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104577241.0.0	
LEL:	9950049	0.0
02:		21.0

Measured Well Depth: 13.10 ft.
Depth to Water (DTW): 3.76 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.34 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: _____ liters
Casing Radius (R): 2 inch
Verified Depth to Water: 3.76 ft.
Field calculated -- 1 casing vol.*: 22.8 liters
Field calculated -- 3 casing vol.*: 68.4 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1400	0.0	0.0	300ml/m	18.8	4.68	7.32	59.5	-229	4.09	Y	4.04	
1403	0.9	0.04		18.6	4.52	7.17	16.5	-241	1.61	Y	4.07	
1406	1.8	0.07		18.6	4.49	7.14	12.9	-243	1.55	Y	4.10	
1409	2.7	0.11		18.6	4.44	7.12	10.3	-243	.93	Y	4.13	
1412	3.6	0.15		18.6	4.41	7.10	6.0	-244	.79	Y	4.13	
1415	4.5	0.19		18.6	4.39	7.09	0.8	-244	.76	Y	4.15	
Previous Log readings												

Sample Date: 4-25-06 **Start Time:** 1425 **End Time:** 1435 **Equipment Blank Collected:** N **Trip Blank Collected:** TBLA52238

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.05 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
398-MW4-A5081 NS	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

15 Bottles

Samplers: R. K

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.25.06

Well Number: **D03-02**

Weather: Sunny, (Cloudy), Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 56.70 ft.
Depth to Water (DTW): 6.08 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 50.62 ft.

.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 625.13 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 6.08 ft.
Field calculated -- 1 casing vol.*: 125.13 liters
Field calculated -- 3 casing vol.*: 375.39 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
14:26			.4	21.00	85.4	6.88	0	-122	1.91	N	6.30	
14:29	1.2	0.009	.4	20.81	86.2	6.67	0	-63	0.76	N	6.33	
14:32	2.4	0.01	.4	20.77	86.1	6.61	0	-43	0.60	N	6.35	
14:35	3.6	0.03	.4	20.72	86.0	6.56	0	-25	0.42	N	6.37	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.25.06 **Start Time:** 14:37 **End Time:** 14:43 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5239

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.37 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D03-02-A5083 NS	X								X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

4 Bottles

Sampler: R Chandler

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **D03-03**

Purge Date: 4.25.06

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		0
LEL:		0
02:		0

Measured Well Depth: 57.85 ft.

Depth to Water (DTW): 4.54 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 53.01 ft.

.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 131.03 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 4.54 ft.

Field calculated -- 1 casing vol.*: 131.03 liters

Field calculated -- 3 casing vol.*: 393.10 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
14:50			.4	19.04	40.1	5.46	414.0	54	3.02	N	4.60	
14:53	1.2	0.009	.4	19.00	39.9	5.09	420.0	62	1.08	N	4.62	
14:56	2.4	0.18	.4	18.97	40.1	5.02	425.0	67	0.75	N	4.62	
14:59	3.6	0.27	.4	18.94	40.5	4.92	371.0	72	0.56	N	4.62	
15:02	4.8	0.36	.4	18.93	41.0	4.82	396.0	76	0.45	N	4.62	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.25.06 **Start Time:** 15:05 **End Time:** 15:10 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5239

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.62 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D03-03-A5084 NS	X								X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 4 Bottles Sampler: R. Chapple

IR Site 14

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-25-06

Well Number: **M14-01**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
	PID:	0
	LEL:	0
	02:	0

Measured Well Depth: 12.85 ft.
Depth to Water (DTW): 2.92 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.93 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.13 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.92 ft.
Field calculated -- 1 casing vol.*: 6.13 liters
Field calculated -- 3 casing vol.*: 18.39 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
10:39			.4	17.39	16.0	6.83	999.0	-72	2.41	N	3.00	
10:42	1.2	0.20	.4	17.30	13.9	6.85	880.0	-81	1.41	N	3.15	
10:45	2.4	0.39	.4	17.22	13.0	6.86	528.0	-92	0.93	N	3.15	
10:48	3.6	0.59	.4	17.17	12.8	6.88	166.0	-96	0.74	N	3.15	
10:51	4.8	0.78	.4	17.14	12.4	6.88	157.0	-98	0.65	N	3.15	Stabilized but
10:56	6.8	1.11	.4	17.11	12.3	6.89	112.0	-100	0.54	N	3.5	purging until 1 Cas vol.
						RC						
Previous Log readings												

Sample Date: 4.25.06 **Start Time:** 11:00 **End Time:** 11:10 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TBZ-A5239

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.15 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M14-01-A5185	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: ferrous iron 2.2

14 Bottles

Sampler: R.C

IR Site 14

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.25.06

Well Number: **M101-A**

Weather: Sunny (Cloudy) Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 12.44 ft.
Depth to Water (DTW): 1.55 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.89 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.72 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 1.55 ft.
Field calculated -- 1 casing vol.*: 6.72 liters
Field calculated -- 3 casing vol.*: 20.16 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
11:25			.4	17.00	2.41	7.22	0	-73	2.65	N	1.79	
11:28	1.2	0.18	.4	16.80	2.46	7.13	0	-88	1.30	N	1.80	
11:31	2.4	0.36	.4	16.67	2.52	7.13	0	-94	0.90	N	1.82	
11:34	3.6	0.54	.4	16.62	2.53	7.13	0	-97	0.77	N	1.82	
11:37	4.8	0.71	.4	16.57	2.54	7.14	0	-99	0.65	N	1.82	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.25.06 **Start Time:** 11:40 **End Time:** 11:55 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5289

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 1.82 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M101-A-A5184 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

14 Bottles

Sampler: R Chavez

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB1-A5238
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 1

DATE (YYYMMDD) 2006/04/25

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: Jo Lynn

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5239
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYMMDD) 2006/04/25 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
TB (Trip blank for a NS sample)	NA	WQ
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cruz

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5240
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 3

DATE (YYYMMDD) 2006/04/25

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Gonzales

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 04/26/06 Time: 6:00 Page: 1 of 1
Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11
Work Description: GROUNDWATER SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357
Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue
Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A
Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling
Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Shawn Baker		ERI			
Brian Dee		ITSI			
R CHAPPLE	R. Chapple	ITSI			
Dennis Hill	D. Hill	ITSI			
		Maxim			
Anthony S. Doolet		MACTEC			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name printed) (Signature)
Site Superintendent: JD LENZEN (Name printed) (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/26/06
REPORT NO 21

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 2 and 3
	IR Site 2 is 100% completed
	IR Site 3 is 51% complete
	Eighteen total wells were sampled and shipped to the lab.
	Base-wide sampling is at 57% completion

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	None

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Daniel Scelli 4/26/06
AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI) FIELD ACTIVITY DAILY LOG	DATE	4/26/06
	Report	211

Project Name: Alameda Basewide Groundwater Monitoring	Project No 02-125.11
Activity Subject: Sampling of Basewide Program Monitoring Wells	

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	798
Total Work Hours On Job Site From Start Of Construction	878

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 2 and 3
Final two wells sampled at IR Site 2
Sixteen wells sampled at IR Site 3
Eighteen samples sent to the lab for analysis

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Morning clouds with afternoon sun, windy

SIGNATURE: [signature] DATE: 4/24/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4.26.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11
Work Description: Well Sampling Site 3		
Subcontractors/Visitors:		
Weather: Sunny & windy		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-07:00 - Tailgate Safety Mtg., calibrating and loading of equipment.
07:00-07:30 - Purged and sampled Well # D03-04.
07:45-08:30 - Purged and sampled Well # D04-01.
09:00-09:40 - Purged and sampled well # M03-09.
09:45-10:20 - Purged and sampled well # M03-10.
10:35-11:45 - Purged and sampled well # D11-01 & FD.
12:00-13:00 - Unloaded truck, took lunch, reloaded truck.
13:05-13:45 - Purged and sampled well # M11-01.
13:45-14:30 - Purged and sampled well # M11-04.
14:45-15:30 - Unloaded equipment and wrote field log.

RC

Prepared by:	R. CHAPPLE	Signature:	R. Chapple	Date:	4.26.06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4/26/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: GW Sampling

Subcontractors/Visitors: ITSI

Weather: Cloudy AM – Clear PM

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 on site

0615 calibrate meters / H&S Briefing / collect sampling supplies

0700 @ M039-A TD=14.80 DTW = 8.19' Sample # M039-A-A5077 @ 0805

PID# 104565 LEL# 9950049

0930 @ M039-B DTW = 11.30' Sample # M039-B-A5078

1140 @ M03-07 DTW = 7.60' Sample # M03-07-A5094 @ 1250

1312 @ M03-06 DTW = 5.21' Sample # M03-06-A5093 @ 1340

1400 @ D04-02 DTW = 5.05' Sample # D04-02-A5087 @ 1445

Prepared by:	Chad Simpson	Signature:		Date:	4/26/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 4/26/06	Page of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11
Work Description: Monitor Well samples.		
Subcontractors/Visitors:		
Weather: Clouds/Sun/cool		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: Arrived on site, loaded truck with equipment.
0630: Calibrated field equipment,
- attendended morning tailgate meeting.
0700: Moved to site 3
0732: Set up and started purge MO3-05.
0755: Collected sample MO3-05-A5093 plus MS/MSD samples.
0927: Set up and started purge on DO3-01
0950: Collected sample DO3-01-A5082
1037: Set up and started purge on MO3-11
1055: Collected sample, MO3-11-A5097
1129: Set up and started purge on MO3-12
1150: Collected sample MO3-12-A5098
1230: Delivered samples back to the field office
1300: Set up and started purge on DO4-03
1325: Collected sample DO4-03-A5088
1355: Set up and started purge on MO3-07
1445: Collected sample MO3-07-A5091
1530: Delivered samples to the field office, unloaded field supplies and equipment.
1545: Completed paperwork

Prepared by:	B. Dee	Signature:		Date:	4/26/06

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4569**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M039-A-A5077	4/26/06	0905				X	X	X	X	X	X			X	X	X	✓	X	X	X	X	✓	X			✓	

SAMPLED BY: C Simpson / A Drier
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson [signature]
Printed Name Signature
ITSI 4/26/06 1130
Company Date and Time
RECEIVED BY: AARON GREWER [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
_____
Company Date and Time
RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4570**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M039-B-A5078	4/26/06	1005				X	X	X			X			X	X	X	X	X	X	X	X	X	X			X	

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson [signature]
Printed Name Signature

ITSI
Company Date and Time 4/26/06 1130

RECEIVED BY: AARON GREENER [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature

Company Date and Time

RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4573**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Za AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
D03-01-A5082*	4/26/06	0950				X					X			X												X	

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) Brian P. Dee (Signature)
ITSI (Company) 4/26/06 (Date amd Time)
RECEIVED BY: AARON GREWER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date amd Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4576**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
D03-04-A5085	4.26.05	7:28									X																
													RC														

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
iTSI (Company) 4-26-06 12:00 (Date and Time)
RECEIVED BY: AARON GREENER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4577**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
D04-01-A5086*	4.26.06	8:05				X					X			X	X	X										X	

IRC

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.26.06 12:00 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4578**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
D04-02-A5087*	4/26/06	1445				X					X			X	X	X										X	

SAMPLED BY: C. Simpson / A. Dolet
SIGNATURE: CS

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson — CS
Printed Name — Signature
ITSI — 4.26.06 / 1530
Company — Date and Time

RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____
Printed Name — Signature
_____
Company — Date and Time

RECEIVED BY: _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4579**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D04-03-A5088*	4/26/06	1325				X					X			X												X	

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Lee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) Brian P. Lee (Signature)
ITSI (Company) 4/26/06 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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Walnut Creek, California 94598
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4580**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 LA	1 LA	1 LA	1 LA	1 LA	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D11-01-A5089*	4-26-06	11:05				X					X			X	X	X										X	
D11-01-A5090*	4-26-06	11:20				X					X			X	X	X										X	
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: Robyn Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple — R. Chapple
Printed Name — Signature

ITSI — 4.26.06 — 12:00
Company — Date and Time

RECEIVED BY: AARON GRENIER — Aaron Grenier
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature

_____ — _____
Company — Date and Time

RECEIVED BY: _____ — _____
Printed Name — Signature

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Walnut Creek, California 94598
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4581**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M03-04-A5091*	4/26/06	1415			BR	X					X	BR		X												X	

SAMPLED BY: B. Dee
SIGNATURE: Brian F. Dee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) — Brian F. Dee (Signature)
ITSI (Company) — 4/26/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4582**
Page: 1 of 1

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M03-05-A5092*	4/26/06	0755				X					X			X	X	X										X	MS/MSD

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Lee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) Brian P. Lee (Signature)
ITEI (Company) 4/26/06 1230 (Date and Time)
RECEIVED BY: Aaron Gronier (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4583**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M03-06-A5093*	4/26/06	1340				X					X			X	X	X										X	

SAMPLED BY: C. Simpson / A. Ratof
SIGNATURE: C. Simpson

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson (Printed Name) C. Simpson (Signature)
ITSI (Company) 4.26.06 (Date amd Time)
RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4584**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1-	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M03-07-A5094*	4/26/06	1250				X					X			X													

SAMPLED BY: C. Simpson / A. Dold
SIGNATURE: C W

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson — C W
Printed Name — Signature
ITSI — 4-26-06 /
Company — Date and Time

RECEIVED BY: Tony Cojas — Tony Cojas
Printed Name — Signature

RELINQUISHED BY: _____
Printed Name — Signature
Company — Date and Time

RECEIVED BY: _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4585**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M03-09-A5095*	4/26/06	0925				X					X																
											RC																

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4/26/06 12:00 (Date and Time)
RECEIVED BY: Aaron Gronter (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4586**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M03-10-A5096*	4.26.06	10:05				X					X																
													RC														

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple R. Chapple
Printed Name Signature

ITSI 4.26.06 12:00
Company Date amd Time

RECEIVED BY: AARON GRENIER
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature

_____
Company Date amd Time

RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4587**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M03-11-A5097*	4/26/06	1055				X					X																

SAMPLED BY: B. Dee
SIGNATURE: Brian L. Dee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) Brian L. Dee (Signature)
ITSI (Company) 4/26/06 (Date and Time)

RECEIVED BY: AARON GREINER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4588**
Page: **1** of **1**

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M03-12-A5098*	4/26/06	1150				X					X																

SAMPLED BY: B. Dee
SIGNATURE: Brian F. Dee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) Brian F. Dee (Signature)
ITSI (Company) 4/26/06 (Date and Time)
RECEIVED BY: AARON GRENTER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4596**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M11-01-A5107*	4-26-06	1335									X																
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.26.06 15:00 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4597**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M11-04-A5108*	4.26.06	14:10				X					X			X												X	
											RC																

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.26.06 1510 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4720**
Page: **1** of **1**

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB1-A5241	4/26/06	0700	X																								MS/MSD
M03-05-A5092	4/26/06	0755	X	X	X																						MS/MSD
D03-01-A5082	4/26/06	0950	X		X																						
M03-11-A5097	4/26/06	1055	X		X																						
M03-12-A5089	4/26/06	1150	X		X																						
D04-03-A5088	4/26/06	~~1220~~ 1325	X		X																						
M03-04-A5091	4/26/06	1415	X		X																						

SAMPLED BY: BDee
SIGNATURE: Brian See

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian See — Signature
Printed Name
TSI — 4/26/06
Company — Date amd Time

RECEIVED BY: Tony Rojas — Signature
Printed Name

RELINQUISHED BY: _____ — _____
Printed Name — Signature
_____ — _____
Company — Date amd Time

RECEIVED BY: _____ — _____
Printed Name — Signature

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4721**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB2-A5242	4.26.06	7:00	X																								
D03-04-A5085	4.26.06	7:28	X																								
D04-01-A5086	4.26.06	8:05	X	X	X																						
M03-09-A5095	4.26.06	9:25	X		X																						
M03-10-A5096	4.26.06	10:05	X		X																						
D11-01-A5089	4.26.06	11:05	X	X	X																						
D1-01-A5090	4.26.06	11:20	X	X	X																						
M11-04-A5108	4.26.06	14:10	X		X																						

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple — R. Chapple
Printed Name — Signature
ITSI — 4.26.06 15:00
Company — Date amd Time

RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature
_____ — _____
Company — Date amd Time

RECEIVED BY: _____ — _____
Printed Name — Signature

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4722**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~H2~~ Umpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB3-A5243	4/26/06	0700	X																								
M039-A-A5077	4/26/06	0805	X		X																						
M039-B-A5076	4/26/06	1105	X		X																						
M03-07-A5094	4/26/06	1250	X		X																						
M03-06-A5093	4/26/06	1340	X	X	X																						
DW-02-A5087	4/26/06	1445	X	X	X																						

SAMPLED BY: C. Simpson / A. Rolet
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chuck Simpson (Printed Name) CWS (Signature)
ITSI (Company) 4/26/06 1530 (Date and Time)
RECEIVED BY: Tracy Rojas (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

IR Site 2

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4/26/06

Well Number: **M039-A**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 58°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	1.6
LEL:	995/0649	0
O2:	11 4	0

Measured Well Depth: 14.86' ft.
Depth to Water (DTW): 8.19' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.61 ft.

One Casing Volume [redacted] 4.079 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 8.19' ft.
Field calculated -- 1 casing vol.*: 4.079 liters
Field calculated -- 3 casing vol.*: 12.236 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	0735	.90	.22	.3/min	16.72	3.31	5.74	0	-130	4.60	N		
5	0740	1.5	.37	.3/min	16.98	3.31	5.83	0	-140	2.35	N		
10	0745	3.0	.49	.3/min	16.98	3.30	5.94	0	-147	1.56	N		
15	0750	4.5	1.10	.3/min	16.99	3.27	5.99	0	-151	1.29	N		
20	0755	6.0	1.47	.3/min	16.96	3.22	6.03	0	-154	1.06	N		
25	0756	6.90	1.69	.3/min	16.97	3.24	6.00	0	-152	1.10	N		
24	0801	7.80	1.91	.3/min	16.97	3.21	6.04	0	-154	1.08	N		
Previous Log readings													

Sample Date: 4/26/06 **Start Time:** 0805 **End Time:** 0900 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5243

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75/100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 8.95' **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M039-A-A5077	NS	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

26 Bottles

Sampler: C. Simpson / A. Alef

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 2 — **Event: Spring2006** — Purge Date: 4.26.06

Well Number: **M039-B**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 °F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	184565	2.9
LEL:	99500849	0
02:		0

Measured Well Depth: 62.21 ft.
Depth to Water (DTW): 11.30 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 50.91 ft.

One Casing Volume [redacted] 106 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 11.30 ft.
Field calculated -- 1 casing vol.*: 106 liters
Field calculated -- 3 casing vol.*: 318 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
	~~0920~~	.90	.01	300ml/1min	18.99	46.0	6.34	0	-145	5.92	Y	11.32	
	0925	1.5	.01	300ml/min	18.96	46.7	6.44	0	-132	2.25	Y	11.30	
	0930	3.0	.03	.3/min	18.96	47.1	6.47	4.8	-114	1.43	Y	11.30	
15'	0935	4.5	.04	.3/min	18.96	47.2	6.50	1.6	-103	1.22	Y	11.32	
20'	0940	6.0	.05	.3/min	18.97	47.1	6.52	0	-089	1.09	Y	11.33	
25'	0945	7.5	.07	.3/min	18.99	47.0	6.54	0	-074	0.98	Y	11.35	
30'	0950	9.0	.08	.3/min	19.00	46.8	6.56	0	-063	0.93	Y	11.36	
35'	0955	10.5	.09	.3/min	19.02	46.8	6.55	0	-066	0.82	Y	11.37	
40'	1000	12.0	.10	.3/min	19.02	46.8	6.56	0	-069	0.82	Y	11.39	
Previous Log readings													

Sample Date: 4.26.06 **Start Time:** ~~0925~~ 1005 **End Time:** 1100

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5243 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75/100 mL/min

Final Depth to Water 11.53 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M039-B-A5078	NS	X		X	X	X	X			X			X	X	X	X	X	X	X	X	X	X			X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____ **24 Bottles** Sampler: C. Sim / A. Arlat

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **D03-01**

Purge Date: 4-26-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 56 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104558	0.0
LEL:		0.0
02:		20.9

Measured Well Depth: 57.81 ft.

Depth to Water (DTW): 5.99 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 51.82 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 71.99 liters (.367)

Casing Radius (R): 1.5 inch

Verified Depth to Water: 5.99 ft.

Field calculated -- 1 casing vol.*: 71.99 liters

Field calculated -- 3 casing vol.*: 215.97 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0927	0.0	0.0	300mL/m	19.48	65.9	6.34	0.0	-139	3.38	N	6.52	
0930	.9	.012		19.79	69.8	6.33	0.0	-156	.46	N	6.71	
0933	1.8	.025		19.83	70.0	6.32	0.0	-147	.29	N	6.80	
0936	2.7	.037		19.83	70.1	6.31	0.0	-134	.24	N	6.78	
0939	3.6	.050		19.86	70.1	6.31	0.0	-127	.20	N	6.75	
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 0950 **End Time:** 1005 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1 A5241

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.99 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D03-01-A5082	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

10 Bottles

Sampler: Shawn Baker

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 3

Event: Spring2006

Purge Date: 4.26.06

Well Number: **D03-04**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 50 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 56.95 ft.
Depth to Water (DTW): 4.50 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 52.45 ft.

.653
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 129.65 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 4.50 ft.
Field calculated -- 1 casing vol.*: 129.65 liters
Field calculated -- 3 casing vol.*: 388.95 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
7:14			.4	19.73	27.6	6.56	0	94	1.53	N	4.65	
7:17	1.2	0.009	.4	19.86	27.7	6.76	0	77	0.95	N	4.67	
7:20	2.4	0.019	.4	19.91	27.7	6.83	0	69	0.69	N	4.67	
7:23	3.6	0.028	.4	19.92	27.7	6.86	0	68	0.57	N	4.70	Stabilized
						RC						
Previous Log readings												

Sample Date: 4.26.06 **Start Time:** 7:28 **End Time:** 7:38 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5242

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.70 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D03-04-A5085	NS	X								X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments

4 Bottles

Sampler: R. Cample

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **D04-01**

Purge Date: 4.26.06

Weather: Sunny, (Cloudy) Rain, Windy, Hot Temperature: 50 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 98.4 ft.
Depth to Water (DTW): 3.74 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 94.66 ft.

.367

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 131.51 liters
Casing Radius (R): 1 1/2 inch
Verified Depth to Water: 3.74 ft.
Field calculated -- 1 casing vol.*: 131.51 liters
Field calculated -- 3 casing vol.*: 394.53 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
7:46			.4	20.53	81.8	7.33	0	58.0	4.39	N	4.10	
7:49	1.2	0.009	.4	20.166	81.7	7.32	0	-81	1.56	N	4.05	
7:52	2.4	0.018	.4	20.71	83.9	7.09	122	-114	0.63	N	4.05	
7:55	3.6	0.027	.4	20.68	84.8	6.99	30.9	-117	0.40	N	4.05	
7:58	4.8	0.036	.4	20.66	84.9	6.94	0	-118	0.33	N	4.05	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.26.06 **Start Time:** 8:05 **End Time:** 8:25 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5242

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.05 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D04-01-A5086	NS	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Equipment Blank

15 Bottles

Sampler: R. Chandle

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.26.06

Well Number: D04-02

Weather: ~~Sunny~~, Cloudy, Rain, Windy, Hot Temperature: 66°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104565	0
LEL:	99580949	0
O2:	11	0

Measured Well Depth: 98.50' ft.
Depth to Water (DTW): 5.05' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 93.45 ft.

One Casing Volume = ~~0.163~~ .367 x T(ft) x R(inches)² x 3.7854: 194.74 liters
Casing Radius (R): 1.5" inch
Verified Depth to Water: 5.05' ft.
Field calculated -- 1 casing vol.*: 194.74 liters
Field calculated -- 3 casing vol.*: 584.22 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
5	1420	1.50	.01	.3/min	18.36	55.3	6.86	115	-182	5.15	N	5.05	
10	1425	3.0	.02	.3/min	18.44	55.1	6.81	112	-138	3.02	N	5.06	
15	1430	4.50	.02	.3/min	18.52	54.9	6.81	156	-157	1.76	N	5.07	
18	1433	5.40	.03	.3/min	18.51	55.0	6.86	770	-184	1.44	N	5.06	
22	1436	6.30	.02	.3/min	18.51	55.1	6.85	123.5	-186	1.46	N	5.09	
24	1439	7.20	.04	.3/min	18.55	55.0	6.83	140	-196	1.46	N	5.10	
Previous Log readings													

Sample Date: 4.26.06 **Start Time:** 1445 **End Time:** 1500 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5243

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.21 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D04-02-A5087	NS	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 1 mg/L

15 Bottles

Sampler: C.S. 4.26.06

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-26-06

Well Number: **D04-03**

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 59 ° Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring:	PID: 104558	0.0
	LEL:	0.0
	02:	20.9

Measured Well Depth: 95.29 ft.
Depth to Water (DTW): 5.61 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 89.68 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 124.58 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 5.61 ft.
Field calculated -- 1 casing vol.*: 124.58 liters
Field calculated -- 3 casing vol.*: 373.74 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1306	0.0	0.0	300 mL/m	19.20	99.9	7.29	64.2	-98	.82	N	5.87	
1309	.9	.007		19.50	99.5	6.76	35.9	-139	.36	N	6.0	
1312	1.8	.014		19.59	99.0	6.64	172.0	-140	.25	N	6.0	
1315	2.7	.021		19.64	98.9	6.59	146.0	-137	.21	N	6.0	
1318	3.6	.028		19.71	98.7	6.56	140.0	-135	.19	N	6.0	
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 1325 **End Time:** 1338 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1 A5241

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.80 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D04-03-A5088	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

10 Bottles

Sampler: Shawn Baker

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 3

Event: Spring2006

Purge Date: 4-26-06

Well Number: **D11-01**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:		0
LEL:		0
02:		0

Measured Well Depth: 59.30 ft.
Depth to Water (DTW): 4.50 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 54.80 ft.

.367
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 76.13 liters
Casing Radius (R): 6.5 inch
Verified Depth to Water: 4.50 ft.
Field calculated -- 1 casing vol.*: 76.13 liters
Field calculated -- 3 casing vol.*: 228.39 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												Water coming out dark gray
10:45			.4	20.46	83.8	7.22	35.5	80	6.18	N	5.10	
10:48	1.2	0.02	.4	20.36	92.5	6.70	0	-41	2.46	N	5.24	
10:51	2.4	0.03	.4	20.30	91.6	6.60	910.0	-35	1.08	N	5.30	
10:54	3.6	0.05	.4	20.24	89.9	6.60	999.0	-24	0.78	N	5.30	
10:57	4.8	0.06	.4	20.23	89.5	6.59	999.0	-20	0.62	N	5.33	
11:00	6.0	0.08	.4	20.24	89.2	6.60	999.0	-16	0.54	N	5.35	Stabilized
							RC					
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 11:05 **End Time:** 11:40 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5242

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.35 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D11-01-A5089	NS	X	X	X	X					X*			X	X	X									X	X
D11-01-A5090*	FD	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron ~ 8.7

30 Bottles

Sampler: R. Chapple

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-26-06

Well Number: M03-04

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 56 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104558	0.0
LEL:		0.0
02:		21.0

Measured Well Depth: ~~4.91~~ 17.11 ft.

Depth to Water (DTW): 4.91 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 12.2 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.52 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 4.91 ft.

Field calculated -- 1 casing vol.*: 7.52 liters

Field calculated -- 3 casing vol.*: 22.56 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1355	0.0	~~0.0~~ ~~300~~	300ml/m	20.43	15.5	6.91	42.5	-189	2.13	N	5.45	
1358	.9	.11		19.15	11.9	6.70	59.3	-200	.40	N	6.21	
1401	1.8	.23		18.82	11.8	6.63	53.9	-195	.25	N	6.61	
1404	2.7	.35		18.62	11.6	6.59	89.2	-197	.17	N	7.22	
							SAS					
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 1415 **End Time:** 1420 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1 A5241

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 9.01 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-04-A5091	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

10 Bottles

Sampler: Shawn Ryker

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-26-06

Well Number: M03-05

Weather: Sunny, (Cloudy), Rain, Windy, Hot Temperature: 55 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104558	0.0
LEL:		0.0
02:		20.9

Measured Well Depth: 12.05 ft.
Depth to Water (DTW): 5.20 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.85 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 4.22 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.20 ft.
Field calculated – 1 casing vol.*: 4.22 liters
Field calculated -- 3 casing vol.*: 12.66 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0732	~~0919~~	0.0	0.0	300 mL/m	17.83	2.17	6.26	7.2	-5	3.34	Y	5.55	
0735	~~0722~~	.9	.21		17.68	1.32	6.49	0.0	-66	.73	Y	5.71	
0738	~~0725~~	1.8	.42		17.75	1.16	6.51	0.0	-61	.54	Y	5.87	
0741		2.7	.63		17.74	1.16	6.56	0.0	-76	.64	Y	6.03	
	0744	3.6	.85		17.75	1.17	6.61	0.0	-82	.62	Y	6.15	
Previous Log readings													

Sample Date: 4-26-06 **Start Time:** 0755 **End Time:** 0845 **Equipment Blank Collected:** N **Trip Blank Collected:** TBIA5241

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 10.36 **MS/MSD** [X]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	9	6	6	6	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-05-A5092	NS	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS/MSD FE: 0.0

15 Bottles

Sampler: Sh Baker

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M03-06**

Purge Date: 4/26/06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 65°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	0
LEL:	995ØØ49	0
02:	11 11	0

Measured Well Depth: 11.81 ft.

Depth to Water (DTW): 5.21 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 6.60 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 4.072 liters

Casing Radius (R): 1 inch

Verified Depth to Water: ~~4.072~~ 5.21 ft.

Field calculated -- 1 casing vol.*: 4.072 liters

Field calculated -- 3 casing vol.*: 12.217 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-0C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1315	.90	.22	.2/min	18.06	4.30	7.53	71.6	-181	7.39	Y	5.25	
6	1318	1.80	.44	.3/min	17.84	4.22	7.78	54.4	-201	3.00	Y	5.25	
9	1321	2.70	.66	.3/min	17.77	4.01	7.90	36.9	-209	2.01	Y	5.25	
12	1324	3.60	.86	.3/min	17.76	3.73	7.95	10	-215	1.43	Y	5.25	
15	1327	4.50	1.11	.3/min	17.74	3.45	7.98	0	-220	1.14	Y	5.25	
18	1330	5.40	1.33	.3/min	17.73	3.21	8.00	0	-223	1.01	Y	5.25	
21	1333	6.30	1.55	.3/min	17.72	3.23	8.02	0	-226	0.99	Y	5.25	
24	1336	7.20	1.77	.3/min	17.70	3.23	8.04	0	-229	0.99	Y	5.25	
Previous Log readings													

Sample Date: 4/26/06 **Start Time:** 1340 **End Time:** 1355 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5243

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 250 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.99 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	~~HCL~~ ~~preserved~~	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-06-A5093	NS	X	X	X	X				·	X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 0

15 Bottles

Sampler: C. Simpson / A. Robert

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 3

Event: Spring2006

Purge Date: 4/26/06

Well Number: **M03-07**

Weather: ~~Sunny~~, Cloudy, Rain, Windy, Hot Temperature: 65°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	0.2
LEL:	995 0049	0
02:	" "	0

Measured Well Depth: 12.78' ft.

Depth to Water (DTW): 2.60' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.18 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.28 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 2.60 ft.

Field calculated -- 1 casing vol.*: 6.28 liters

Field calculated -- 3 casing vol.*: ~~18.56~~ 18.84 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1145	1.5	~~1.77~~ .24	.3/min	19.14	1.15	7.42	99.8	-201	5.76	N	3.29	
1150	3.0	.48	.3/min	18.84	0.748	7.02	55.3	-205	2.45	N	3.31	
1155	4.5	.72	.3/min	18.76	0.684	6.94	19.5	-208	1.69	N	4.39	
1200	6.0	.96	.3/min	18.75	0.652	6.90	22.5	-206	1.35	N	4.80	
1205	7.5	1.19	.3/min	18.72	0.630	6.88	8.6	-207	1.16	N	5.15	
1210	9.0	1.43	.3/min	18.67	0.617	6.84	4.4	-203	1.04	N	5.80	
1215	10.5	1.67	.3/min	18.69	0.633	6.81	3.0	-200	0.98	N	6.18	
1220	12	1.91	.3/min	18.69	0.691	6.79	8	-199	0.96	N	6.60	
1225	13.5	2.15	.3/min	18.70	0.670	6.75	0	-197	0.81	N	7.00	
1230	15.0	2.39	.3/min	18.72	0.715	6.71	0	-197	0.74	N	7.60	
Previous Log readings	See Continuation form											

Sample Date: 4/26/06 **Start Time:** 1250 **End Time:** 1305

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5243 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water _____ **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-07-A5094	NS	X		X	X					X*			X												

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

9 Bottles

Sampler: [signature]

ALAMEDA PURGE LOG Continuation Form

Well Number: MW-67

Event: SPRING 2006

Source 30

Purge Date: 4/26/06

Page # 85

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/- °C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1235	16.5	2.63	.3/min	18.75	0.754	6.69	6	-197	0.71	N	8.05	
1240	18.0	2.87	.3/min	18.77	0.786	6.68	3.3	-198	0.67	N	8.50	
1245	19.5	3.11	.3/min	18.81	0.802	6.68	2.1	-199	0.64	N	8.77	

evious Log readings

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.26.06

Well Number: **M03-09**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 55 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring:	PID:	0
	LEL:	0
	02:	0

Measured Well Depth: 31.85 ft.
Depth to Water (DTW): 5.43 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 26.42 ft.

.65^3

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 65.31 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 5.43 ft.
Field calculated -- 1 casing vol.*: 65.31 liters
Field calculated -- 3 casing vol.*: 195.93 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/-3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
9:13			.4	20.84	96.5	6.01	0	33	1.53	N	5.64	
9:16	1.2	0.02	.4	20.90	96.9	5.88	0	37	0.88	N	5.66	
9:19	2.4	0.04	.4	20.91	97.3	5.87	0	37	0.60	N	5.68	
9:22	3.6	0.06	.4	20.96	97.0	5.86	0	36	0.45	N	5.69	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.26.06 **Start Time:** 09:25 **End Time:** 09:35 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5242

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.69 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-09-A5095	NS	X		X	X					X*															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

8 Bottles

Sampler: R. Chandler

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M03-10**

Purge Date: 4-26-06

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 37.00 ft.

Depth to Water (DTW): 4.06 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 32.94 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 81.42 liters (653)

Casing Radius (R): 2 inch

Verified Depth to Water: 4.06 ft.

Field calculated -- 1 casing vol.*: 81.42 liters

Field calculated -- 3 casing vol.*: 244.26 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
09:50		0.0RC	.4	19.86	7.26	8.85	0	-21	3.55	N	4.38	
09:53	1.2	0.0X1	.4	19.97	6.99	8.96	0	-17	1.40	N	4.65	
09:56	2.4	0.03	.4	19.71	6.93	8.95	0	-16	0.96	N	4.77	
09:59	3.6	0.04	.4	19.67	6.94	8.95	0	-21	0.73	N	4.82	
10:02	4.8	0.06	.4	19.68	6.88	8.94	0	-27	0.61	N	4.86	stabilized
						RC						
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 10:05 **End Time:** 10:20 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5242

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.86 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-10-A5096	NS	X		X	X					X*															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

8 Bottles

Sampler: R. Chan 00

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 3

Event: Spring2006

Well Number: **M03-11**

Purge Date: 4-26-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 57 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	101558	0.0
LEL:		0.0
02:		20.7

Measured Well Depth: 36.70 ft.

Depth to Water (DTW): ~~36.~~ 2.45 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 34.25 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 84.66 liters (.653)

Casing Radius (R): 2 inch

Verified Depth to Water: 2.45 ft.

Field calculated -- 1 casing vol.*: 84.66 liters

Field calculated -- 3 casing vol.*: 253.98 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1037	0.0	0.0	300 mL/m	20.31	2.99	7.77	0.0	88	5.33	N	2.90	
1040	.9	.010		20.57	1.49	7.52	-5.0	-121	1.32	N	3.18	
1043	1.8	.021		20.65	1.37	7.43	-5.0	-188	1.97	N	3.56	
1046	2.7	.031		20.62	1.30	7.59	594.0	-74	1.81	N	3.96	
1049	3.6	.042		20.63	1.29	7.34	236.0	-52	1.77	N	4.01	
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 1055 **End Time:** 1105

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TBI A5241 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 4.56 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-11-A5097 NS	X		X	X					X*															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

8 Bottles

Sampler: Sha[illegible] Baker

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-26-06

Well Number: M03-12

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 59 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	101558	0.0
LEL:		0.0
02:		29.0

Measured Well Depth: 36.06 ft.
Depth to Water (DTW): 2.61 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 34.05 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 84.16 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 2.61 ft.
Field calculated -- 1 casing vol.*: 84.16 liters
Field calculated -- 3 casing vol.*: 252.48 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1129	0.0	0.0	300 mL/m	16.97	2.68	9.28	48.9	27	4.74	N	2.90	
1132	.9	.010		16.81	2.50	10.59	35.1	-94	.55	N	3.57	
1135	1.8	.021		16.82	2.29	10.67	14.3	-148	.29	N	4.25	
1138	2.7	.032		16.85	2.29	10.67	5.5	-169	.24	N	4.60	
1141	3.6	.042	—	16.83	2.29	10.67	0.0	-188	.21	N	4.95	
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 1150 **End Time:** 1157 **Equipment Blank Collected:** NO **Trip Blank Collected:** TB1 A5241

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.44 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-12-A5098 NS	X		X	X					X*															

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: **8 Bottles**

Sampler: Sloan Rubin

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-26-06

Well Number: **M11-01**

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 9.30 ft.
Depth to Water (DTW): 5.57 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 3.73 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 2.30 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.57 ft.
Field calculated -- 1 casing vol.*: 2.30 liters
Field calculated -- 3 casing vol.*: 6.9 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
13:18			.4	16.83	1.54	7.21	0.1	55	10.29	N	5.82	
13:21	1.2	0.52	.4	16.32	1.46	7.14	0.1	71	8.36	N	5.88	
13:24	2.4	1.04	.4	16.08	1.44	7.08	0.1	88	6.73	N	5.95	
13:27	3.6	1.57	.4	15.99	1.40	7.06	0.1	101	5.44	N	5.97	
13:30	4.8	2.09	.4	15.94	1.39	7.05	0.1	108	4.91	N	5.97	
13:33	6.0	2.61	.4	15.94	1.39	7.04	1.4	111	4.42	N	5.97	stabilized
								RC				
Previous Log readings												

Sample Date: 4-26-06 **Start Time:** 13:35 **End Time:** 13:40 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5242

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.97 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M11-01-A5107 NS									X*															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

1 Bottles

Sampler: RC

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.26.06

Well Number: **M11-04**

Weather: Sunny, Cloudy, Rain, (Windy) Hot **Temperature:** 60 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 12.75 ft.
Depth to Water (DTW): 3.47 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.28 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.73 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.47 ft.
Field calculated -- 1 casing vol.*: 5.73 liters
Field calculated -- 3 casing vol.*: 17.19 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
13:53			.4	18.59	0.435	7.09	95.3	120	2.07	N	3.64	
13:56	1.2	0.21	.4	18.20	0.425	6.86	0.1	128	1.30	N	3.64	
13:59	2.4	0.42	.4	18.14	0.412	6.83	0.1	129	1.21	N	3.64	
14:02	3.6	0.63	.4	18.10	0.399	6.83	0.1	129	1.09	N	3.64	Stabilized
						RC						
Previous Log readings												

Sample Date: 4.26.06 **Start Time:** 14:10 **End Time:** 14:40 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5242

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.64 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M11-04-A5108 NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

10 Bottles

Sampler: R. Chasse

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB1-A5241
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYMMDD) 2006/04/06 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. D. Gregory

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5242
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYMMDD) 2006/04/06 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J D Cyr

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5243
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 3

DATE (YYYYMMDD) 20060406 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. D. Leyva

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 4/27/06 Time: 0630 Page: 1 of 1

Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11

Work Description: GROUNDWATER SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357

Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue

Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A

Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness

Minimum PPE Required: Level D

Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling

Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
R Chapple	R Chapple	ITSI			
Shaun Baker		ERI			
		MACTEC			
Kimberly Tom		ITSI			
Dennis Hill	D. Hill	ITSI			
Anthony S. Doolet		MACTEC			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name, printed) Signature

Site Superintendent: JD LENZEN (Name printed) Signature

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 4/27/06
REPORT NO 212

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒
IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐
WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 3 and 9
	Sampling at Site 3 is 87% complete
	Sampling at Site 9 is 23% complete
	Base-wide groundwater sampling is 67% complete
	There have been no missed parameters leading to re-sampling

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Canisters were ordered for soil gas sampling and should arrive early next week.

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Arnold Allie 4/27/06
AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	4/27/06
FIELD ACTIVITY DAILY LOG	Report	212

Project Name: Alameda Basewide Groundwater Monitoring	Project No 02-125.11
Activity Subject: Sampling of Basewide Program Monitoring Wells	

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	878
Total Work Hours On Job Site From Start Of Construction	958

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 3 and 9
Fourteen wells sampled at IR Site 3
Four wells sampled at IR Site 9
All eighteen wells were shipped to lab for analysis

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Clear and breezy

SIGNATURE: Gerard A. Ellis DATE: 4/27/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.27.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Well Sampling at Site 3			
Subcontractors/Visitors:			
Weather: Sunny			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00 - 06:45 - Tailgate safety meeting, calibrating and loading of equipment.
06:55 - 07:30 - Purged and sampled well # MW360-2.
07:35 - 08:30 - Purged and sampled well # MO3-13 & FD.
08:40 - 09:10 - Purged and sampled well # MO3-15.
09:20 - 09:50 - Purged and sampled well # MO3-16.
09:50 - 10:20 - Waited for entry into gate for well # MO3-14.
10:20 - 10:55 - Purged and sampled well # MO3-14.
11:00 - 12:30 - Unloaded truck, took lunch, re-loaded truck.
12:30 - 13:25 - Purged and sampled well # D10B-02 in site 9.
13:30 - 14:10 - Purged and sampled well # D13-01 in site 9.
14:15 - 15:00 - Unloaded truck.

Prepared by:	R. Chapple	Signature:	R. Chapple	Date:	4.27.06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 4.27.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: GW Monitoring			
Subcontractors/Visitors: ITSI			
Weather: Clear 56°F AM			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 at ITSI Field Trailer
0615 Collect sampling supplies, Calibrate meters H&S Briefing
PID # N/A LEL # 995 0949
0700 @ M07B-01 Sample # M07B-01-AS106 @ 0730
0942 @ M04-06 Sample # M04-06-AS105 @ 0910
0955 @ M11-06 Sample # M11-06-AS111 @ 1025
1100 @ MW360-1 Sample # MW360-1-AS117 @ 1115
1215 @ D07C-01 Sample # D07C-01-AS165 @ 1245
1310 @ D09-01 Sample # D09-01-AS166 @ 1400
1430 at Trailer to QC/Check in Samples

4.27.06

Prepared by:	Chad Simpson	Signature:		Date:	4.27.06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Sample Team #1

Project: Alameda Base-wide Groundwater Sampling	Date: 4-27-06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11
Work Description: QM M&S Low Flow		
Subcontractors/Visitors:		
Weather: morning cool overcast, afternoon sunny warm		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0650 - Low Flow Purge & Sample Field Dup. MW-05

- 0800 Tested for Fe

0850 - Low Flow Purge & Sample ~~Field Dup.~~ NA ~~MMB~~ MW4-05

- 0924 Tested for Fe.

0940 - Low Flow Purge & Sample MW360-3

Field Dup.

- 1025

1100 - Low Flow Purge & Sample MW360-4

- 1135

1200 - 1245 Lunch

1300 - Low Flow Purge & Sample MW97-3

MS/MSD

- 1344

Prepared by:	Shawn Baker	Signature:		Date:	4-27-06

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4589**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M03-13-A5099*	4.27.06	15:00				X					X																
M03-13-A5100*	4.27.06	08:15				X					X																
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.27.06 11:30 (Date and Time)

RECEIVED BY: AARON GREWER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

Innovative Technical Solutions, Inc.
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Walnut Creek, California 94598
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4591**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M03-15-A5102	4.27.06	09:10									X																

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple
SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.27.06 11:30 (Date and Time)
RECEIVED BY: AARON GREVIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4592**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M03-16-A5103	4-27-06	09:40									X																

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4-27-06 11:30 (Date and Time)
RECEIVED BY: Aaron Grewell (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4593**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M04-05-A5104*	4-27-06	0905				X					X			X	X	X									X	X	

SAMPLED BY: Shawn Baker
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Shawn Baker [signature]
Printed Name Signature

ITSI 4-27-06
Company Date amd Time

RECEIVED BY: AARON GRENIER [signature]
Printed Name Signature

RELINQUISHED BY: _____ _____
Printed Name Signature

_____ _____
Company Date amd Time

RECEIVED BY: _____ _____
Printed Name Signature

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4594**
Page: 1 of 2

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M04-06-A5105*	4.27.06	0910				X					X			X												X	

SAMPLED BY: C. Simpson / A. Dralet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson (Printed Name) — (Signature)
ITSI (Company) — 4.27.06 (Date and Time)

RECEIVED BY: AARON GREINER (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4595
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M07B-01-A5106*	4.27.06	0730				X					X			X												X	

SAMPLED BY: C Simpson / A. Drolet
SIGNATURE: CS

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson (Printed Name) CS (Signature)
ITSI (Company) 4.27.06 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4598**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M11-05-A5109*	4-27-06	0708				X					X			X	X	X									X	X	
M11-05-A5110*	4-27-06	~~0705~~ 0715	GE			X					X			X	X	X									X	X	

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Shawn Baker
Printed Name — Signature

ITSI
Company

4-27-06 0840
Date amd Time

RECEIVED BY: AARON GRENTER
Printed Name — Signature

RELINQUISHED BY: _____
Printed Name — Signature

Company

Date amd Time

RECEIVED BY: _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4599**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M11-06-A5111*	4.27.06	1025				X					X			X												X	

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson — Printed Name; Signature
ITSI — Company; 4.27.06 — Date and Time
RECEIVED BY: AARON GRENIER — Printed Name; Signature

RELINQUISHED BY: _____ Printed Name; Signature
_____ Company; Date and Time
RECEIVED BY: _____ Printed Name; Signature

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Walnut Creek, California 94598
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4605**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MW360-I-A5117*	4.27.06	1115				X					X			X												X	

SAMPLED BY: C. Simpson / A. Proctor
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson — Printed Name / Signature
TTS — Company
4.27.06 — Date amd Time

RECEIVED BY: Aaron Greider — Printed Name / Signature

RELINQUISHED BY: _____ Printed Name / Signature
_____ Company / Date amd Time

RECEIVED BY: _____ Printed Name / Signature

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Walnut Creek, California 94598
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4606**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
MW360-2-A5118*	4.27.06	07:10				X					X			X	X	X										X	
								RC																			

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R Chapple (Signature)
ITSI (Company) 4.27.06 11:30 (Date and Time)

RECEIVED BY: AARON GREENER (Printed Name) A Chas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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Walnut Creek, California 94598
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4607**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
MW360-3-A5119*	4-27-06	1005				X					X			X												X	
MW360-3-A5120*	4-27-06	~~1005~~ 1015 GE				X					X			X												X	

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Shawn Baker (Printed Name) _____ (Signature)
ITSI (Company) 4-27-0 (Date amd Time)

RECEIVED BY: AARON GRENIER (Printed Name) _____ (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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Walnut Creek, California 94598
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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4608**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MW360-4-A5121*	4-27-06	1125				X					X			X												X	

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Shawn Baker
Printed Name — Signature

ITSI
Company — Date and Time 4-27-06

RECEIVED BY: ARTHUR GRENTER
Printed Name — Signature

RELINQUISHED BY: _____
Printed Name — Signature

Company — Date and Time

RECEIVED BY: _____
Printed Name — Signature

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Walnut Creek, California 94598
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4609**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MW97-3-A5122*	4-27-06	1320				X					X			X												X	MS/MSD

SAMPLED BY: Shawn Baker
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Shawn Baker [signature]
Printed Name Signature

ITSI 4.27.06
Company Date amd Time

RECEIVED BY: Tony Rojas [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature

_____
Company Date amd Time

RECEIVED BY: _____
Printed Name Signature

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4648**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D07C-01-A5165*	4.27.06	1245				X					X			X	X	X											

SAMPLED BY: C. Simpson / A. Dolet
SIGNATURE: C. Simpson

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson — Printed Name
C. Simpson — Signature
ETS — Company
4.27.06 — Date and Time

RECEIVED BY: Tony Lopez — Printed Name
Tony Lopez — Signature

RELINQUISHED BY: _____ Printed Name _____ Signature
_____ Company _____ Date and Time

RECEIVED BY: _____ Printed Name _____ Signature

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4649
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
D09-01-A5166*	4.27.06	1400				X					X			X	X	X											

SAMPLED BY: C. Simpson / A. Dolth
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson / Chad Simpson
Printed Name / Signature

ITSI / 4.27.06
Company / Date and Time

RECEIVED BY: Tony Rojas / Tony Rojas
Printed Name / Signature

RELINQUISHED BY: _____
Printed Name / Signature

_____
Company / Date and Time

RECEIVED BY: _____
Printed Name / Signature

ITSI Innovative Technical Solutions, Inc.
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4650**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
D10B-02-A5167*	4-27-06	13:07				X					X			X	X	X											
										RC																	

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.27.06 15:30 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4651**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D13-01-A5168*	4-27-06	13:45				X					X			X	X	X											

RC

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R Chapple (Printed Name) Robyn Chapple (Signature)
ITSI (Company) 4-27-06 13:30 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4723**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB1-A5244	4-27-06	~~0700~~ 0715 GE	X	~~X~~	~~X~~																						
MW1-05-A5109	4-27-06	0703	X	X	X																						
MW1-05 A5110	4-27-06	~~0715~~ 0705 GE	X	X	X																						
MW4-05-A5104	4-27-06	0905	X	X	X																						
MW360-3A5119	4-27-06	1005	X		X																						
~~MW360-3-A5119~~	~~4-27-06~~	1005	X		X	GE																					
MW360-4-A5121	4-27-06	1125	X		X																						
MW97-3-A5122	4-27-06	1320	X		X	~~X~~ GE																					X
MW360-3-A5120	4/27	1015	X		X																						

SAMPLED BY: Shawn Baker
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker [signature]
Printed Name Signature
ITSI 4-27-06
Company Date and Time

RECEIVED BY: Tony Pojas [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
_____
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4724**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB2-A5245	4.27.06	0700	X																								
MW302-A5118	4.27.06	07:10	X	X	X																						
MO3-13-A5099	4.27.06	08:00	X		X																						
MO3-13-A5100	4.27.06	08:25	X		X																						
MO3-15-A5102	4.27.06	09:00	X																								
MO3-16-A5103	4.27.06	09:40	X																								
MO3-14-A5101	4.27.06	10:50	X																								
D10B02-A5167	4.27.06	13:07	X	X	X																						
D13-01-A5168	4.27.06	13:45	X	X	X																						
											RC																

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 4.27.06 15:00 (Date and Time)

RECEIVED BY: Tony Ojas (Printed Name) Tony Ojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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Walnut Creek, California 94598
(925) 946-3100 (Tel)
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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4725**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCL~~ Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB3-A5246	4.27.06	0700	X																								
M07B-01-A5106	4.27.06	0730	X		X																						
MW4-06-A5105	4.27.06	0910	X		X																						
MW11-06-A5111	4.27.06	1025	X		X																						
MW30-1-A5117	4.27.06	1115	X		X																						
DUP-01-A5165	4.27.06	1245	X	X	X																						
MW9-01-A5166	4.27.06	1400	X	X	X																						

SAMPLED BY: C. Simpson / A. Dolot
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Cheel Simpson — CWS
Printed Name — Signature

ITSI — 4.27.06
Company — Date and Time

RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____ Printed Name — Signature
_____ Company — Date and Time

RECEIVED BY: _____ Printed Name — Signature

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M03-13**

Purge Date: 4.27.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 55 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

Meter ID#		Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 36.52 ft.
Depth to Water (DTW): 3.46 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 33.06 ft.

0.653
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 81.72 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 3.46 ft.
Field calculated -- 1 casing vol.*: 81.72 liters
Field calculated -- 3 casing vol.*: 245.16 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:40			.4	17.15	0.887	8.97	0	75	6.07	N	3.92	
7:43	1.2	0.01	.4	17.49	3.01	10.00	0	-26	4.44	N	4.40	
7:46	2.4	0.03	.4	17.53	3.18	11.07	0	-48	4.38	N	4.75	
7:49	3.6	0.04	.4	17.54	3.19	11.11	0	-65	4.33	N	5.40	
7:52	4.8	0.06	.4	17.54	3.20	11.13	0	-72	4.31	N	5.72	
7:55	6.0	0.07	.4	17.54	3.19	11.14	0	-75	4.29	N	5.80	Stabilized
							RC					
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 8:00 **End Time:** 8:30 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5245

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.80 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-13-A5099	NS	X		X	X					X*															
M03-13-A5100*	FD	X		X	X					X*															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

16 Bottles

Sampler: R.C[illegible]ple

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.27.06

Well Number: **M03-14**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 65 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 37.41 ft.
Depth to Water (DTW): 5.97 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 31.44 ft.

0.653
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 77.72 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 5.97 ft.
Field calculated -- 1 casing vol.*: 77.72 liters
Field calculated -- 3 casing vol.*: 233.16 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
10:30			.4	19.23	9.9	8.22	0	81	3.01	N	6.21	
10:33	1.2	0.02	.4	19.21	9.3	8.22	11.0	76	0.54	N	6.46	
10:36	2.4	0.03	.4	19.22	9.0	8.19	10.8	69	0.28	N	6.69	
10:39	3.6	0.05	.4	19.21	7.55	8.14	159.0	62	0.22	N	6.95	
10:42	4.8	0.06	.4	19.21	7.41	8.14	28.1	57	0.17	N	7.11	
10:45	6.0	0.08	.4	19.21	7.30	8.14	12.4	53	0.17	N	7.24	Stabilized
							RC					
Previous Log readings												

Sample Date: 4.27.06 **Start Time:** 10:50 **End Time:** 10:55 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5245

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.24 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-14-A5101	NS	X																							

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 3 Bottles Sampler: R Shrode

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4·27·06

Well Number: **M03-15**

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

0.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 73.74 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 5.82 ft.

Field calculated -- 1 casing vol.*: 73.74 liters

Field calculated -- 3 casing vol.*: 221.22 liters

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 35.65 ft.

Depth to Water (DTW): 5.82 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 29.83 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/-3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
8:40			.4	16.51	90.8	7.99	0	88	4.67	N	6.31	
8:43	1.2	0.02	.4	17.09	99.9	7.13	221.0	108	1.93	N	6.61	
8:46	2.4	0.03	.4	17.19	89.5	6.65	0	96	0.63	N	6.75	
8:49	3.6	0.05	.4	17.24	90.6	6.45	17.0	79	0.45	N	6.80	
8:52	4.8	0.07	.4	17.27	91.2	6.29	13.5	61	0.34	N	6.85	
8:55	6.0	0.08	.4	17.30	91.7	6.22	51.9	53	0.26	N	6.86	
8:58	7.2	0.10	.4	17.33	92.8	6.15	0	47	0.24	N	6.89	
							RC					
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 0900 **End Time:** 09:05 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5245

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.89 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-15-A5102 NS	X								X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Ph, Hg, Ni, Se, Ag, Tl, Zn)

Comments

4 Bottles

Sampler: R. Cycle

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M03-16**

Purge Date: 4.27.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 34.64 ft.

Depth to Water (DTW): 5.06 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 29.6 ft.

0.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 73.17 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 5.06 ft.

Field calculated -- 1 casing vol.*: 73.17 liters

Field calculated -- 3 casing vol.*: 219.51 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
9:25			.4	18.74	99.9	6.55	0	107	5.01	N	5.71	
9:28	1.2	0.02	.4	19.46	99.9	6.14	0	4	0.70	N	6.23	
9:31	2.4	0.03	.4	19.50	99.9	6.08	18.6	-0	0.27	N	6.54	
9:34	3.6	0.05	.4	19.53	99.9	6.06	0	-4	0.17	N	6.88	
9:37	4.8	0.07	.4	19.54	99.9	6.05	0	-6	0.14	N	7.04	Stabilized
					RC							
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 09:40 **End Time:** 09:45

Equipment Blank Collected: N/A 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB2-A5245 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water _____ **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Perrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M03-16-A5103 NS	X								X															

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

4 Bottles

Sampler: R Chaney

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M04-05**

Purge Date: 4-27-06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 57 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0.0
02:		21.9

Measured Well Depth: 13.40 ft.
Depth to Water (DTW): 4.02 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.38 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.78 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.02 ft.
Field calculated -- 1 casing vol.*: 5.78 liters
Field calculated -- 3 casing vol.*: 17.34 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0851	0.0	0.0	300ml/m	18.12	.431	7.24	-0.0	125	5.66	N	4.11	
0854	.9	.15		17.98	.429	7.23	0.0	127	3.91	N	4.35	
0857	1.8	.31		17.93	.428	7.24	0.0	131	3.73	N	4.37	
0900	2.7	.46	—	18.14	.429	7.24	0.0	132	3.59	N	4.70	
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 0905 **End Time:** 0924 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TBI-A5244

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.36 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M04-05-A5104	NS	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe: 0.0

15 Bottles

Sampler: MLT BL

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.27.06

Well Number: **M04-06**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 60°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:	995 0049	0
02:	" "	0

Measured Well Depth: 13.64' ft.

Depth to Water (DTW): 2.25' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.39 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.03 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 2.25' ft.

Field calculated -- 1 casing vol.*: 7.03 liters

Field calculated -- 3 casing vol.*: 21.09 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
	0855	5.90	.17	.3l/min	15.13	0.750	6.04	51.3	+121	9.11	N	2.65	
6	0859	2.01.00	.42 .26	.3l/min	15.11	0.748	5.87	38.7	109	2.05	N	3.07	
9	0856	4.52.70	.63 .39	.3l/min	15.12	0.749	5.91	18	103	1.98	N	3.50	
12	0859	603.60	.84 .51	.3l/min	15.12	0.750	5.95	36	100	1.65	N	3.67	
15	0902	7.54.50	1.09 .64	.3l/min	15.10	0.750	5.96	13.4	100	1.62	N	4.18	
18	0905	5.40	.77	.3l/min	15.11	0.749	5.97	18.6	100	1.63	N	4.26	
Previous Log readings													

Sample Date: 4.27.06 **Start Time:** 0910 **End Time:** 0925 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5246

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 80/100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.17 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M04-06-A5105	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

10 Bottles Samples

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M07B-01**

Purge Date: 4.27.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 57°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	N/A	N/A
LEL:	995 0649	0
02:	" "	0

Measured Well Depth: 11.00 ft.

Depth to Water (DTW): 4.41 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 6.59 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 4.07 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 4.41 ft.

Field calculated -- 1 casing vol.*: 4.07 liters

Field calculated -- 3 casing vol.*: 12.21 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
	0710	1.5	.37	.3l/min	15.56	0.191	5.68	23.1	125	5.15	N	4.43	
	0713	2.4	.59	.3l/min	15.57	0.190	5.77	31.4	109	4.30	N	4.46	
	0716	3.3	.81	.3l/min	15.57	0.191	5.85	15.2	80	3.85	N	4.49	
	0719	4.20	1.03	.3l/min	15.56	0.194	5.93	18.6	44	3.54	N	4.51	
17	0722	5.10	1.25	.3l/min	15.55	0.199	6.00	11.8	19	3.34	N	4.53	
20	0725	6.00	1.47	.3l/min	15.56	0.203	6.07	0	-1	3.21	N	4.55	
23	0728	6.90	1.70	.3l/min	15.56	0.204	6.03	1.3	-12	3.21	N	4.58	
Previous Log readings													

Sample Date: 4.27.06 **Start Time:** 0730 **End Time:** 0745 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5246

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 90 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.98 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	~~On ice preserved~~ HCL	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrite, Nitrate, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M07B-01-A5106	NS	X		X	X					X*			X											X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: Ferrous Iron = Fe

11 Bottles

Sampler: C. Sim / A. Drolet

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-27-06

Well Number: **M11-05**

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 54 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0.0
02:		20.1

Measured Well Depth: 14.74 ft.

Depth to Water (DTW): ~~4~~5.69 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.45 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.83 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 4.69 ft.

Field calculated -- 1 casing vol.*: 5.83 liters

Field calculated -- 3 casing vol.*: 17.49 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
651	0.0	0.0	300 mL/m	18.38	1.62	6.33	63.9	134	3.45	N	4.80	
654	.9	.15		18.11	1.01	6.58	0.0	128	2.83	N	4.84	
657	1.8	.30		18.01	.95	6.67	0.0	124	2.48	N	4.85	
0700	2.7	.46		17.99	.96	6.70	0.0	122	2.31	N	4.70	
0703	3.6	.61		17.95	.96	6.72	0.0	118	2.29	N	4.70	
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 0708 **End Time:** 0759 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1-A5244

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.78 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M11-05-A5109	NS	X	X	X	X					X*			X	X	X									X	X
M11-05-A5110*	FD	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: EB @ 0700 FDB 0708

30 Bottles

Sampler: Shawn Baker

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.27.06

Well Number: **M11-06**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 61°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	0.2
LEL:	995 0649	0
02:	" "	0

Measured Well Depth: 13.91' ft.
Depth to Water (DTW): 5.18' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 8.73 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.39 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.18' ft.
Field calculated -- 1 casing vol.*: 5.39 liters
Field calculated -- 3 casing vol.*: 16.17 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1	1000	.90	.17	.3l/min	16.71	5.20	6.73	55.8	-158	3.35	N	5.19	
6	1003	1.80	.33	.3l/min	16.63	4.64	6.92	52.8	-141	2.39	N	5.19	
9	1006	2.70	.50	.3l/min	16.52	4.28	7.02	30.7	-133	1.88	N	5.20	
12	1009	3.60	.67	.3l/min	16.45	2.98	7.16	16.0	-127	1.88	N	5.22	
15	1012	4.50	.83	.3l/min	16.42	1.20	7.23	14.1	-98	3.78	N	5.24	
18	1015	5.40	1.00	.3l/min	16.42	0.99	7.15	11.7	-85	4.24	N	5.26	
21	1018	6.30	1.17	.3l/min	16.41	0.98	7.13	10.6	-82	4.28	N	5.28	
24	1021	7.20	1.34	.3l/min	16.40	0.99	7.14	9.1	-78	4.26	N	5.30	
Previous Log readings													

Sample Date: 4.27.06 **Start Time:** 1025 **End Time:** 1045 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A52416

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.99 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M11-06-A5111	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: **10 Bottles** Sampler: C. Simp / A. Ables

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.27.06

Well Number: **MW360-1**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 64°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.1
LEL:	995 0049	0
02:		0

Measured Well Depth: 14.43 ft.
Depth to Water (DTW): 3.08 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.35 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.0 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.08 ft.
Field calculated -- 1 casing vol.*: 7.0 liters
Field calculated -- 3 casing vol.*: 21.0 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1056	.90	.13	.3/min	18.65	3.52	6.87	30.1	13	305	N	3.08	
6	1059	1.80	.26	.3/min	18.39	3.52	6.79	19.5	8	1.98	N	3.10	
9	1102	2.70	.39	.3/min	18.44	3.51	6.76	17.1	10	1.61	N	3.13	
12	1105	3.60	.51	.3/min	18.44	3.51	6.74	13.5	14	1.40	N	3.13	
15	1108	4.50	.64	.3/min	18.41	3.52	6.72	11.6	18	1.28	N	3.18	
18	1111	5.40	.77	.3/min	18.46	3.52	6.71	9.6	20	1.29	N	3.19	
21	1114	6.30	.90	.3/min	18.43	3.52	6.71	6.3	13	1.29	N	3.22	
Previous Log readings													

Sample Date: 4.27.06 **Start Time:** 1115 **End Time:** 1136 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5246

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 90/100 mL/min

Final Depth to Water 3.46 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW360-1-A5117	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 10 Bottles Sampler: [illegible]

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **MW360-2**

Purge Date: 4-27-06

Weather: (Sunny) Cloudy, Rain, Windy, Hot **Temperature:** 50 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 15.20 ft.
Depth to Water (DTW): 3.92 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.28 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.96 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.92 ft.
Field calculated -- 1 casing vol.*: 6.96 liters
Field calculated -- 3 casing vol.*: 20.88 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
6:56			.4	16.46	5.03	5.56	0	198	2.87	N	4.53	
6:59	1.2	0.17	.4	16.64	5.17	5.90	0	173	0.38	N	4.72	
7:02	2.4	0.34	.4	16.65	5.19	5.97	0	152	0.25	N	4.75	
7:05	3.6	0.52	.4	16.68	6.00520	6.00	0	125	0.16	N	4.78	Stabilized
						RC						
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 7:10 **End Time:** 7:30 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5245

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.78 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW360-2-A5118	NS	X	X	X	X					X*			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 8

15 Bottles

Sampler: R Ohmsple

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **MW360-3**

Purge Date: 4-27-06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 58 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0.0
02:		21.0

Measured Well Depth: 14.9 ft.
Depth to Water (DTW): 3.47 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.43 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.05 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.47 ft.
Field calculated -- 1 casing vol.*: 7.05 liters
Field calculated -- 3 casing vol.*: 21.15 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
944	0.0	0.0	300ml/m	20.25	.995	7.14	0.0	94	4.83	N	3.56	
947	.9	.12		20.13	1.52	7.07	0.0	94	1.64	N	4.42	
950	1.8	.25		20.12	1.53	7.07	0.0	95	1.00	N	4.45	
953	2.7	.38		20.10	1.54	7.07	0.0	95	.80	N	4.46	
0956	3.6	.51		20.08	1.54	7.07	0.0	95	.71	N	4.47	
0959	4.5	.63		20.03	1.55	7.06	0.0	95	.59	N	4.47	
Previous Log readings			AMB									

Sample Date: 4-27-06 **Start Time:** ~~0905~~ 1005 **End Time:** 1025

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TBI A5244 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 4.45 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW360-3-A5119	NS	X		X	X					X*			X												X
MW360-3-A5120*	FD	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: EDD: 1025

20 Bottles Sampler: Shaun Baker

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: MW360-4

Purge Date: 4-27-06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0.0
02:		21.9

Measured Well Depth: 14.81 ft.

Depth to Water (DTW): 3.01 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.80 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.28 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 3.01 ft.

Field calculated -- 1 casing vol.*: 7.28 liters

Field calculated -- 3 casing vol.*: 21.84 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1108	0.0	0.0	300 ml/m	19.85	.526	7.30	59.0	5	3.43	N	3.81	
1111	.9	.12		19.22	.419	7.17	.1	16	1.51	N	4.41	
1113	1.8	.24		19.18	.419	7.16	2.0	16	1.18	N	4.56	
1116	2.7	.37		19.17	.428	7.15	2.2	17	.91	N	4.64	
1119	3.6	.49		19.11	.430	7.15	4.0	14	.79	N	4.70	
1122	4.5	.61	—	19.13	.430	7.15	20.1	12	.69	N	4.71	
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 1125 **End Time:** 1135 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1 A5244

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.40 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW360-4-A5121	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

10 Bottles

Sampler: Shea Baker

IR Site 3

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-27-06

Well Number: MW97-3

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 61 ° Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0.0
LEL:		0.0
02:		21.0

Measured Well Depth: 14.75 ft.
Depth to Water (DTW): 2.78 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.97 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.38 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.78 ft.
Field calculated -- 1 casing vol.*: 7.38 liters
Field calculated -- 3 casing vol.*: 22.14 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1301	0.0	0.0	300 mL/m	16.51	.448	6.62	0.0	113	6.13	N	3.17	
1304	.9	.12		16.19	.440	6.64	0.1	112	3.45	N	3.24	
1307	1.8	.24		16.04	.448	6.66	.1	109	2.31	N	3.26	
1310	2.7	.36		16.00	.450	6.67	.2	105	1.92	N	3.31	
1313	3.6	.48		15.99	.451	6.67	.1	103	1.90	N	3.32	
1316	4.5	.60		15.93	.454	6.67	41.5	97	1.88	N	3.30	
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 1320 **End Time:** 1344

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TBIA5244 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 3.07 **MS/MSD** [X]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW97-3-A5122	NS	X		X	X					X*			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS / MSD

10 Bottles

Sampler: Shawn Baker

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **D07C-01**

Purge Date: 4.27.06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 68°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	164565	0
LEL:	995 6849	0
02:		0

Measured Well Depth: 5°6.10 ft.
Depth to Water (DTW): 3.75 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 54.35 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 113 liters (.267)
Casing Radius (R): 1.5 inch
Verified Depth to Water: 3.75 ft.
Field calculated -- 1 casing vol.*: 113 liters
Field calculated -- 3 casing vol.*: 339 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1230	.90	.01	.3l/min	17.62	1.74	7.04	60.2	82	4.74	N	4.01	
6	1233	1.80	.02	.3l/min	17.61	1.74	7.02	10.9	84	4.69	N	4.22	
9	1236	2.70	.03	.3l/min	17.60	1.73	7.00	15.2	86	4.67	N	4.49	
12	1239	3.60	.03	.3l/min	17.59	1.72	7.01	13.6	89	4.67	N	4.53	
Previous Log readings													

Sample Date: 4.27.06 **Start Time:** 1245 **End Time:** 1255

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5246 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 4.5.99 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D07C-01-A5165	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = Ø

14 Bottles

Sampler: C. Simp

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.27.06

Well Number: D09-01

Weather: (Sunny), Cloudy, Rain, Windy, Hot   Temperature: 66°F   Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104565	0
LEL:	9958049	0
02:	" "	0

Measured Well Depth: 60.10 ft.
Depth to Water (DTW): 5.98 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 54.12 ft.

One Casing Volume= [~~0.163~~ .367 x T(ft) x R(inches)] x 3.7854: 112 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 5.99 ft.
Field calculated -- 1 casing vol.*: 112 liters
Field calculated -- 3 casing vol.*: 336 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1312	.90	.01	.3/min	18.03	42.50	6.90	83.2	91	8.84	N	5.99	
6	1315	1.80	.02	.3/min	17.94	42.90	6.83	102.0	-83	5.53	N	6.01	
9	1318	2.70	.02	.3/min	18.08	42.30	6.63	71,000	-45	2.94	N	6.07	
12	1321	3.60	.03	.3/min	18.11	42.30	6.52	71,000	-19	2.01	N	6.14	
15	1324	4.50	.04	.3/min	18.13	42.40	6.45	202	2	1.66	N	6.20	
18	1327	5.40	.05	.3/min	18.12	42.40	6.42	122	17	1.45	N	6.25	
21	1330	6.30	.06	.3/min	18.16	42.40	6.40	63.6	20	1.31	N	6.30	
24	1333	7.20	.06	.3/min	18.16	42.40	6.39	55.3	34	1.21	N	6.40	
27	1336	8.10	.07	.3/min	18.18	42.40	6.38	41.0	38	1.09	N	6.46	
30	1339	9.00	.08	.3/min	18.24	42.30	6.37	50.4	41	0.99	N	6.50	
Previous Log readings	→ See Continuation form →												

Sample Date: 4.27.06   Start Time: 1400   End Time: 1435   Equipment Blank Collected: ______   Trip Blank Collected: TB3-A5246

Pump Collected With: Peristaltic   Volatile Sample Flow Rate: 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water: 7.67   MS/MSD ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO3	HNO3	NA	HNO3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D09-01-A5166	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered   *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron - 0

14 Bottles

Sampler: C. Schaupen / A. Nolet

ALAMEDA PURGE LOG Continuation Form

Well Number: D09-01

Event: SPRING 2006

Source 30

Purge Date: 4/27/06

Page # 147

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/- °C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
33	1342	9.90	.09	.3/min	18.23	42.40	6.37	38.7	42	0.91	N	6.54	
36	1345	10.80	.10	.3/min	18.25	42.40	6.37	30.4	43	0.88	N	6.65	
39	1348	11.70	.10	.3/min	18.28	42.40	6.37	67.6	44	0.84	N	6.71	
42	1351	12.60	.11	.3/min	18.27	42.40	6.37	21.2	41	0.83	N	6.92	
Previous Log readings													

FIELD PARAMETERS

File: U:\Alameda\Databases\Pre-Sampling\Alameda_FIELD_GW.mdb/07 rpt_Well Purge Continuation Form 30

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4.27.06

Well Number: D10B-02

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 60.12 ft.
Depth to Water (DTW): 3.86 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 56.26 ft.

0.367
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 78.16 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 3.86 ft.
Field calculated -- 1 casing vol.*: 78.16 liters
Field calculated -- 3 casing vol.*: 234.48 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
12:37			.4	20.15	9.75	7.41	0.2	162	6.05	N	4.48	
12:40	1.2	0.02	.4	20.04	18.88	10.16	5.9	-151	1.09	N	4.90	
12:43	2.4	0.03	.4	20.11	18.4	10.46	0	-160	0.47	N	5.06	
12:46	3.6	0.05	.4	20.10	15.9	10.05	0	-155	0.29	N	5.15	
12:49	4.8	0.06	.4	20.13	13.7	9.32	0	-133	0.21	N	5.20	
12:52	6.0	0.08	.4	20.14	11.9	8.77	0	-117	0.19	N	5.21	
12:55	7.2	0.09	.4	20.14	6.67	8.53	0	-106	0.18	N	5.22	
12:58	8.4	0.11	.4	20.17	5.17	8.31	0	-94	0.17	N	5.22	
13:01	9.6	0.12	.4	20.16	5.05	8.21	0	-87	0.16	N	5.22	
13:04	10.8	0.14	.4	20.12	5.16	8.11	0	-82	0.16	N	5.23	stabilized.
Previous Log readings												

Sample Date: 4.27.06 **Start Time:** 13:07 **End Time:** 13:20 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5245

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water _____ **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D10B-02-A5167 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Foamy turn 8.7

14 Bottles

Sampler: R. Chanale

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 4-27-06

Well Number: **D13-01**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

0.367

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 80.05 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 2.26 ft.
Field calculated -- 1 casing vol.*: 80.05 liters
Field calculated -- 3 casing vol.*: 240.15 liters

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 59.88 ft.
Depth to Water (DTW): 2.26 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 57.62 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
13:32			.4	20.11	3.04	7.77	78.2	119	2.12	N	2.66	
13:35	1.2	0.01	.4	19.64	3.01	7.42	53.7	121	0.44	N	2.74	
13:38	2.4	0.03	.4	19.66	3.01	7.32	26.2	119	0.30	N	2.76	
13:41	3.6	0.04	.4	19.60	3.01	7.22	9.1	117	0.21	N	2.78	stabilized
						RC						
Previous Log readings												

Sample Date: 4-27-06 **Start Time:** 13:45 **End Time:** 14:05 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-AS245

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.78 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D13-01-A5168 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: ferrous iron 8.2

14 Bottles

Sampler: R. C[illegible] Apple

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TBI-A5244
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYMMDD) 2006/04/27 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	**SAMPLE METHOD**	**SAMPLE MATRIX**
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: Jo Ley

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5245
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 2

DATE (YYYMMDD) 2006/04/27

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	**SAMPLE METHOD**	**SAMPLE MATRIX**
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. D. Long

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5246
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 3

DATE (YYYMMDD) 2006/04/27 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J.D. Coy

ITSI Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 05/01/06 Time: 0630 Page: 1 of 1
Customer: NAVY Project: ALAMEDA BASEWIDE GW SAMPLING Contract #: N68711-02-D 8213 Proj. #: 0212T 11
Work Description: GROUNDWATER SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance / Alameda Emergency Number: 911, 5100-523-4357
Hospital/Clinic: Alameda Hospital Address: 2070 CLINTON AVE
Evacuation Procedures: MEET @ TRAILER AWAIT FUTHER INSTUCTIONS

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
JEFF LOT ITSI H&S	925-270-2443	GERARD ELLISON A&I	925-250-8554
ARVIND ACHARYA ITSI APM	510-719-6958	JD LEMOINE TASK MGR	925-765-1325

SITE HAZARDS

Physical Hazards	Chemical Hazards (include chemical products)
SLIP, TRIP, FALL/SPILL SPLASH	SAMPLE PRESERVATIVES (HCl, HNO3, NaOH
VEHICULAR HAZARD; TRAFFIC	ZAAC
OBJECTS AROUND WELL BOXES, BIO HAZARDS	CONTACT W/ POTENTIALLY
CRICKETS, INSECTS	CONTAMINATED GROUNDWATER

SITE ENTRY REQUIREMENTS

Check-In Procedures: NA
Training Requirements: 40 HR OSHA HAZWOPER AWARENESS
Minimum PPE Required: LEVEL D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: GROUNDWATER SAMPLING
Specific safety issues/work practices: USE CAUTION WHEN OPENING WELLS, WATCHFUL AROUND TRAFFIC.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Shawn Baker		ERI			
Paul West		ITSI			
[illegible]		Machel			
R. CHAPPLE	R. Chapple	ITSI			
Dennis Hill	D. Hill	ITSI			
Anthony S. Drolet		MACTEC			
Brian Dee		ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name (printed)) (Signature)
Site Superintendent: J. D. Lemoine (Name (printed)) J. D. Lemoine (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 5/1/06
REPORT NO 213

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 3, 9 and 16
	Sampling at IR Site 3 is 100% complete
	Sampling at IR Site 9 is 76% complete
	Sampling at IR Site 16 is 20% complete
	Base-wide groundwater sampling is 75% complete
	No wells required re-sampling

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Received first batch of Summa canisters for soil gas. Plan to sample on Wed and Thurs.
	Project Chemist Paul West onsite performing internal QC audit on samples.

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Donald A. Galli 5/1/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	5/1/06
FIELD ACTIVITY DAILY LOG	Report	213

Project Name: Alameda Basewide Groundwater Monitoring	Project No 02-125.11
Activity Subject: Sampling of Basewide Program Monitoring Wells	

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10
Paul West	Proj Chemist	4			

Total Work Hours On Job Site This Date inc. Cont. Sheet	84
Cumulative Total of Work Hours From Previous Report	958
Total Work Hours On Job Site From Start Of Construction	1042

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 3, 9 and 16
The final five wells were sampled at Site 3
Nine wells were sampled at Site 9
One well was sampled at Site 16
All fifteen wells were QC'd and shipped to lab for analysis

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Clear, sunny with afternoon breeze

SIGNATURE: Jerry Lell DATE: 5/1/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5/1/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: GW Sampling			
Subcontractors/Visitors: ITSI			
Weather: Clear			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 on site at ITSI trailer

0630 Collect sampling supplies / H&S Briefing
PID # 104558 LEL # 0423414

0700 MW-08 DTW = 1.47' TD = 32.00' Sample # MW-08-A5174 @ 0745

0900 MW-06 DTW = 2.91 TD = 9.00' Sample # MW-06-A5172 @ 0956

1100 MW410-1 DTW = 3.85' TD = 13.30' Sample # MW410-1-A5176 @ 1132

1300 MW013-4 DTW = 4.34' TD = 15.05' Sample # MW013-4-A5182 1335

1400 MW013-3 DTW = 3.14 TD = 14.27 Sample # MW013-3-A5181 1430

1520 at trailer to QC / Check in Samples

Prepared by:	C. Slagsvold	Signature:		Date:	5-1-06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 5.1.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: Well Sampling Site 9

Subcontractors/Visitors: Paul West of ITSI

Weather: Sunny

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-07:00 - Site safety meeting, calibration and loading of equipment.

07:00-08:00 - Purged and sampled well # M13-07.

08:10-09:10 - Purged and sampled well # D19-01 & FD.

09:15-09:40 - Picked up more coolers and changed batteries in horriba.

09:40-10:45 - Purged and sampled well # M07C-08.

11:00-11:45 - Purged and sampled well # MW410-2.

12:00-12:45 - Unloaded truck, took lunch, re-loaded truck.

13:30-14:55 - Purged and sampled well # 608 MJ-MW2.

* Cone left at this site to cover a hole in a cover approximately 5ft. from well - going to the street at a 45° angle.

15:00-16:00 - Unload truck and misc. tasks.

RC

Prepared by:	R. CHAPPLE	Signature:	R. Chapple	Date:	5.1.06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Navy – 02-125.11	Date: 5/01/06	Page 1 of 1
Weather: Sun/warm		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: arrived on site, loaded truck with equipment & supplies
- Calibrated field instruments.
0630: attended morning tailgate meeting
0225: Started purge on OU2B-MW05
0255: collected sample OU2B-MW05-A5116
0832: Set up and started purge OU2B-MW04
0850: Collected sample OU2B-MW04-A5115 + MS/MSD volumes.
0952: Set up and started purge on OU2B-MW03
1010: Collected sample OU2B-MW03-A5114
1131: Set up and started purge on OU2B-MW02
1145: Collected sample OU2B-MW02-A5113
1216: Set up and started purge on OU2B-MW01
1235: Collected sample OU2B-MW01-A5112
1300: lunch
1330: Delivered samples to the field office
1430: unloaded truck and equipment.
Packed samples for Lab.
1500: Completed paperwork
1600:

Prepared by:	Signature:	Date:
		5/01/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5-1-2006	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: FIELD AUDIT.			
Subcontractors/Visitors: PAUL WEST			
Weather: CLEAR AND SUNNY 60-85°			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 - ARR SITE
0615 - TAILGATE
0630 - DEPART FOR 1ST WELL MW13-08
0710 - WELL STARTED (PURGING)
0740 - WELL FIELD PARAMETERS STABILIZED
0800 - 1ST WELL SAMPLING COMPLETED.
- EQUIPMENT REPACKAGED W.L. METER DECONTAMINATED
0810 - WELL RE SEALED
0820 - ARRIVE AT D19-01 TEAM #2 IN PROCESS OF PURGING.
0830 - WELL D19-01 STABILIZED.
0832 - SAMPLING STARTED
0910 - SAMPLING FINISHED WELL RESEALED
0915 - RETURN TO TRAILER
0930 - DEPART WITH TEAM #1 TO WELL OU2B MW-03
~~1040~~ 1004 HR - SAMPLED WELL OU2B - MW 03
1020 - SAMPLING COMPLETED
1025 - WELL RE SEALED
1045 - RETURN TO TRAILER
1115 - LUNCH
1300 - RETURN FROM LUNCH TO TRAILER.
1355 - DEPART TRAILER WITH 2 COOLERS TO C+T
1445 - ARRIVE C+T. RELEASE SAMPLES TO C+T
1450 - C+T LOGIN PROCEDURE STARTED.
1520 - C+T LOGIN PROCEDURE ENDED
1530 - C+T DEBRIEF

Prepared by:	PAUL WEST	Signature:	Paul V. West	Date:	5/1/2006

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4601**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
~~MW02-A5113~~	5/01/06	1145				X					X			X												X	

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS:
FLD Samp ID = OU2B-MW02-A5113

RELINQUISHED BY: Brian Dee — Printed Name — Brian P. Dee — Signature
ITSI — Company — 5/01/06 — Date and Time

RECEIVED BY: G Ellison — Printed Name — Signature

RELINQUISHED BY: G Ellison — Printed Name — Signature
ITSI — Company — 5/1/06 1350 — Date and Time

RECEIVED BY: Paul Wert — Printed Name — Paul V. Wert — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4602**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
~~MW03-A5114~~	5/01/06	1010				X					X			X												X	

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:
FLD SAMP ID = OU2B-MW03-A5114

RELINQUISHED BY: Shawn Baker (Printed Name) — (Signature)
ITSI (Company) — 5-1-06 1330 (Date and Time)

RECEIVED BY: G Ellison (Printed Name) — (Signature)

RELINQUISHED BY: G Ellison (Printed Name) — (Signature)
ITSI (Company) — 5/1/06 1350 (Date and Time)

RECEIVED BY: PAUL WEST (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4603**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
~~OU2B-~~ GE MW04-A5115	5/01/06	0850				X					X			X												X	MS/MSD

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS:
Field Samp ID = OU2B-MW04-A5115

RELINQUISHED BY: Brian Dee (Printed Name) Brian P. Dee (Signature)
ITSI (Company) 5/01/06 (Date and Time)

RECEIVED BY: G Ecuson (Printed Name) (Signature)

RELINQUISHED BY: G Ecuson (Printed Name) (Signature)
ITSI (Company) 5/1/06 1350 (Date and Time)

RECEIVED BY: PAUL WEST (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4654
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M07C-08-A5171*	5.1.06	10:15				X					X			X	X	X											MS/MSD RC
									RC																		

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.1.06 11:30 (Date and Time)

RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4656**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M13-07-A5173*	5.1.06	7:32				X					X			X	X	X											
											RC																

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R Chapple (Signature)
ITSI (Company) 5.1.06 10:30 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4652
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D19-01-A5169*	5.1.06	8:34				X					X			X	X	X											
D19-01-A5170*	5.1.06	8:49				X					X			X	X	X											
											RC																

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.1.06 10:30 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4655**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M13-06-A5172*	5.1.06	0956				X					X			X	X	X											

SAMPLED BY: C. Simpson / A. Dolet
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson (Printed Name) CWS (Signature)
ITSI (Company) 5.1.06 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4660**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Za AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
MW410-2-A5177*	5.1.06	11:20				X					X			X	X	X											

RC

SAMPLED BY: R. CHAPPLE
SIGNATURE: R Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.1.06 11:45 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4657**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M13-08-A5174*	5-1-06	0945				X					X			X	X	X											

SAMPLED BY: C. Simpson / A. Probst
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)

RECEIVED BY: AARON GRENIER (Printed Name) _____ (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4659**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	2	1	1	2	2	2	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MW410-1-A5176*	5.1.06	1132				X					X			X	X	X											MS/MSD

SAMPLED BY: Chad Simpson / Aaron Greiter
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson (Printed Name) / Chad (Signature)
ITSI (Company) / 5.1.06 1230 (Date and Time)
RECEIVED BY: Aaron Greiter (Printed Name) / (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4728**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritun Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCL~~ Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB3-A5249	05/01/06	700	X																								
MW3-08-A5174	5-1-06	0745	X	X	X																						
MW3-06-A5172	5-1-06	0956	X	X	X																						
MW410-1-A5176	5-1-06	1132	X	X	X																						MS/MSD
★ MWD13-4-A5182	5-1-06	1335	X	X	X																						
MWD13-3-A5181	5-1-06	1430	X	X	X																						

SAMPLED BY: C. Simpson / A. Drulet
SIGNATURE: C. Simpson

SPECIAL INSTRUCTIONS/COMMENTS:
★ Sample # MWD13-4-A5182 - ALL VOAs have no HCL preservative

RELINQUISHED BY: Chad Simpson / C. Simpson
Printed Name / Signature
ITSI / 5.1.06 / 1530
Company / Date amd Time

RECEIVED BY: Tony Fong / Tony Fong
Printed Name / Signature

RELINQUISHED BY: _____
Printed Name / Signature
_____
Company / Date amd Time

RECEIVED BY: _____
Printed Name / Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4727**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB2-A5248	05/01/06	700	X																								
M13-07-A5173	5.1.06	07:32	X	X	X																						
D19-01-A5169	5.1.06	8:34	X	X	X																						
D19-01-A5170	5.1.06	8:49	X	X	X																						
MOTC-08-A5171	5.1.06	10:15	X	X	X																						
MW410-2-A5172	5.1.06	11:20	X	X	X																						
608MJ_MW2-A5186	5.1.06	14:15	X	X	X																						
											RC																

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.1.06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4726**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1- L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB1-A5247	05/01/06	700	X																								
MW05-A5116	05/01/06	0755	X	X	X																						
MW04-A5115	05/01/06	0858	X		X																						MS/MSD
MW03-A5114	05/01/06	1010	X		X																						
MW02-A5113	05/01/06	1145	X		X																						
MW01-A5112	05/01/06	1235	X	X	X																						

SAMPLED BY: B. Dee
SIGNATURE: Brian L. Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) / Brian L. Dee (Signature)
ITSI (Company) / 5/01/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) / Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4664**
Page: 1 of 1

~~no HCL in VOA's~~ CS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	ANALYSIS: VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			~~Unpres HCL~~	Unpres	~~unpres HCL~~	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MWD13-4-A5182*	5.1.06	1335				X					X			X	X	X											

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: CW

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)
~~NO HCL in VO~~ CS

RELINQUISHED BY: Chad Simpson (Printed Name) CW (Signature)
ITSI (Company) 5.1.06 / 1530 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4663**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MWD13-3-A5181*	5.1.06	1430				X					X			X	X	X											

SAMPLED BY: C. Simpson / A. Dolot
SIGNATURE: Chas Simpson

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chas Simpson (Printed Name) Chas Simpson (Signature)
ITSI (Company) 5.1.06 / 1530 (Date and Time)
RECEIVED BY: Tony Rosal (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4668**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
608MJ-MW2-A5186*	5·1·06	14:15				X			X	X	X			X	X	X								X		RC	
											RC																

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
1751 (Company) 5·1·06 15:00 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4600**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
~~MW01-A5112~~ GE	5/01/06	1235				X					X			X	X	X											

SAMPLED BY: B.D
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:
FLDSamp ID = OU2B-MW01-A5112

RELINQUISHED BY: Brian Lee [signature]
Printed Name Signature
IT3E 5/01/06
Company Date and Time

RECEIVED BY: Tony Rojas [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
_____
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4604**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
UZ6-MW05-A5116	5/01/06	0755				X					X			X	X	X										X	

SAMPLED BY: S Dee
SIGNATURE: Brian P. Dee
RELINQUISHED BY: Brian Dee — Brian P. Dee
Printed Name — Signature
ITSF — 5/01/06 1300
Company — Date and Time
RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 3 Well Number: OU2B - MW01

Event: Spring2006

Purge Date: 5-1-06

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
	PID: 104582	0.0
	LEL: 9850049	0.0
	02: 11 11	27.8

Measured Well Depth: 12.13 ft.
Depth to Water (DTW): 5.41 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.72 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 4.14 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.41 ft.
Field calculated -- 1 casing vol.*: 4.14 liters
Field calculated -- 3 casing vol.*: 12.42 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1216	0.0	0.0 ~~300mL/m~~	300mL/m	19.41	2.96	6.45	0.0	-167	7.47	N	5.57	
1219	.9	.21		18.76	2.47	6.37	-0.0	-182	2.00	N	5.58	
1222	1.8	.43		18.64	2.40	6.36	-0.0	-191	.70	N	5.59	
1225	2.7	.65		18.60	2.41	6.35	-0.0	-195	.30	N	5.58	
1228	3.6	.86		18.57	2.40	6.35	-0.1	-199	.18	N	5.58	
1231	4.5	1.08		18.54	2.39	6.35	0.0	-202	0.0	N	5.58	
Previous Log readings												

Sample Date: 5-1-06 **Start Time:** 1235 **End Time:** 1253 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1 A5247

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.52 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
OU2B-MW01-A5112 NS	X	X	X	X					X			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe = 8.1 Mg/L

15 Bottles

Sampler: Shawn Baker

IR Site 3 OU2B - **Well Number:** MW02

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5-1-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 58 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9250079	0.0
02:	"	28.0

Measured Well Depth: 11.88 ft.
Depth to Water (DTW): 6.20 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 5.68 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 3.50 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 6.20 ft.
Field calculated -- 1 casing vol.*: 3.50 liters
Field calculated -- 3 casing vol.*: 10.50 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1131	0.0	0.0	300 ml/m	18.41	31.0	6.56	0.0	-221	2.59	N	6.29	
1134	.9	.25		18.27	31.1	6.58	-0.1	-258	1.40	N	6.35	
1137	1.8	.51		18.20	31.0	6.56	-0.1	-280	.54	N	6.31	
1140	2.7	.77		18.15	30.9	6.55	-0.0	-315	.41	N	6.33	
1143	3.6	1.02		18.14	30.9	6.54	-0.0	-331	.37	N	6.35	
Previous Log readings												

Sample Date: 5-1-06 **Start Time:** 1145 **End Time:** 1159 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1 A5247

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.12 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
OU2B - MW02-A5113	NS	X		X	X					X			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: _____

10 Bottles

Sampler: Shawn Baker

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

IR Site 3 Well Number: ~~MW03~~ OU2B - MW03

Purge Date: 5-1-06

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 56 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:	9850049	0.0
02:	"	20.8

Measured Well Depth: 12.09 ft.
Depth to Water (DTW): 5.24 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.85 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 4.22 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.24 ft.
Field calculated -- 1 casing vol.*: 4.22 liters
Field calculated -- 3 casing vol.*: 12.66 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0952	0.0	0.0	300 mL/m	18.20	11.8	7.18	22.1	-118	4.71	N	5.40	
0955	.9	.21		17.92	10.3	6.98	-0.0	-125	.98	N	5.40	
0958	1.8	.42		17.83	7.34	6.95	-0.1	-129	.03	N	5.40	
1001	2.7	.63		17.79	7.06	6.95	-0.0	-130	.00	N	5.40	
1004	3.6	.85		17.71	7.04	6.94	-0.1	-131	.00	N	5.40	
1007	4.5	1.06		17.68	7.03	6.93	-0.1	-132	.00	N	5.40	
Previous Log readings												

Sample Date: 5-1-06 **Start Time:** 1010 **End Time:** 1028 **Equipment Blank Collected:** ____ **Trip Blank Collected:** TB1 A5247

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.35 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
OU2B - MW03-A5114	NS	X		X	X					X			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: ____

10 Bottles

Sampler: Shawn Baker

IR Site 3 (OU2B-) Well Number: MW04

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5-1-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 55 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring:	PID: 104582	0.0
	LEL: 9850079	0.0
	02: " "	21.0

Measured Well Depth: 12.25 ft.
Depth to Water (DTW): 4.89 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 7.36 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 4.54 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.89 ft.
Field calculated -- 1 casing vol.*: 4.54 liters
Field calculated -- 3 casing vol.*: 13.62 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0832	0.0	0.0	300 ml/m	17.88	2.61	7.86	-0.1	-173	3.42	N	5.06	
0835	.9	.19		17.63	2.53	7.80	-0.0	-195	.33	N	5.06	
0838	1.8	.139		17.49	2.68	7.82	-0.1	-222	0.00	N	5.07	
0841	2.7	.159		17.45	2.69	7.83	-0.1	-234	0.00	N	5.08	
0844	3.6	.179		17.42	2.68	7.83	-0.1	-242	0.00	N	5.09	
Previous Log readings												

Sample Date: 5-1-06 **Start Time:** 0850 **End Time:** 0920 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1 A5247

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.96 **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
(OU2B-) MW04-A5115 NS	X		X	X					X			X												X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS/MSD

10 Bottles

Sampler: Shawn Baker

IR Site 3 (OU2B-) **Well Number:** MW05

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5-1-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 54 **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0.0
LEL:		0.0
02:		21.9

Measured Well Depth: ~~MW~~ 12.35 ft.
Depth to Water (DTW): 4.21 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 8.14 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.02 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.21 ft.
Field calculated -- 1 casing vol.*: 5.02 liters
Field calculated -- 3 casing vol.*: 15.06 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0735	0.0	0.0	300 ml/m	18.14	28.4	6.10	7.4	-71	6.07	N	4.53	
0738	.9	.17		17.85	27.6	6.98	-0.2	-141	.94	N	4.54	
0741	1.8	.35		17.75	27.6	7.25	-0.2	-165	.25	N	4.55	
0744	2.7	.53		17.72	27.5	7.31	-0.1	-169	.09	N	4.57	
0747	3.6	.71		17.69	27.4	7.34	-0.2	-171	.00	N	4.57	
0750	4.5	.89		17.66	27.4	7.37	-0.1	-173	.00	N	4.59	
0753	5.4	1.07		17.64	27.4	7.37	-0.1	-174	.00	N	4.59	
Previous Log readings												

Sample Date: 5-1-06 **Start Time:** 0755 **End Time:** 0815 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1A5247

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.37 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
(OU2B-) MW05-A5116 NS	X	X	X	X					X			X	X	X									X	X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: FE : 2.0

15 Bottles

Sampler: Shawn Baker

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.1.06

Well Number: **D19-01**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 55 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

0.367

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 77.44 liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: 4.51 ft.

Field calculated -- 1 casing vol.*: 77.44 liters

Field calculated -- 3 casing vol.*: 232.32 liters

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:	/	0
02:		0

Measured Well Depth: 60.25 ft.

Depth to Water (DTW): 4.51 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 55.74 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
8:15			.4	17.9	22.2	6.70	-3.3	24	4.68	N	4.70	
8:18	1.2	0.02	.4	18.4	21.9	6.83	54.6	21	1.98	N	4.73	
8:21	2.4	003	.4	18.4	20.6	6.93	31.0	12	1.10	N	4.73	
8:24	3.6	0.05	.4	18.4	20.0	6.99	4.2	5	0.68	N	4.73	
8:27	4.8	0.06	.4	18.4	19.6	7.02	-0.6	0	0.54	N	4.73	
8:30	6.0	0.08	.4	18.4	19.5	7.04	2.2	-5	0.42	N	4.73	Stabilized
						RC						
Previous Log readings												

Sample Date: 5.1.06 **Start Time:** 8:34 **End Time:** 9:06

Equipment Blank Collected: N/A 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB-A5248 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 4.73 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D19-01-A5169 NS	X	X	X	X					X*			X	X	X									X	
D19-01-A5170* FD	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron: 8

28 Bottles

Sampler: R. Chapple

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 9

Event: Spring2006

Purge Date: 5.1.06

Well Number: **M07C-08**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 13.26 ft.
Depth to Water (DTW): 2.92 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.34 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.38 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.92 ft.
Field calculated -- 1 casing vol.*: 6.38 liters
Field calculated -- 3 casing vol.*: 19.14 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
9:48			.4	16.6	0.837	7.33	16.9	38	6.86	N	3.41	
9:51	1.2	0.19	.4	16.6	0.676	6.86	16.2	51	5.37	N	3.78	
9:54	2.4	0.38	.4	16.6	0.609	6.74	8.9	57	5.11	N	4.12	
9:57	3.6	0.56	.4	16.7	0.585	6.72	17.1	62	5.23	N	4.40	
10:00	4.8	0.75	.4	16.8	0.553	6.69	-1.2	66	5.55	N	4.52	
10:03	6.0	0.94	.4	16.8	0.536	6.67	-1.4	69	5.46	N	4.71	
10:06	7.2	1.13	.4	16.7	0.526	6.65	-2.8	72	4.97	N	4.90	
10:09	8.4	1.32	.4	16.7	0.522	6.63	-3.2	74	4.71	N	5.11	
10:12	9.6	1.50	.4	16.6	0.517	6.62	-3.1	75	4.27	N	5.33	Stabilized
							RC					
Previous Log readings												

Sample Date: 5.1.06 **Start Time:** 10:15 **End Time:** 10:38 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5248

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water _____ **MS/MSD** ~~X~~RC

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M07C-08-A5171	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: ~~MS/MSD~~RC Ferrous Iron 8

14 Bottles

Sampler: R.Chapple

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.1.06

Well Number: **M13-06**

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 66°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
	PID: 104550	0
	LEL: 04/23/04	0
	02: " "	0

Measured Well Depth: 9.90' ft.
Depth to Water (DTW): 2.91' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 6.09' ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 3.75 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 2.91 ft.
Field calculated -- 1 casing vol.*: 3.75 liters
Field calculated -- 3 casing vol.*: 11.25 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	0935	.90	.24	.3/min	15.86	0.396	6.14	45.4	95	4.55	N	2.99	
6	0936	1.80	.48	.3/min	15.89	0.391	6.24	39.2	90	3.92	N	2.99	
9	0941	2.70	.72	.3/min	15.97	0.385	6.39	47.3	83	3.74	N	3.01	
12	0944	3.60	.96	.3/min	16.03	0.377	6.50	27.8	79	4.01	N	3.01	
15	0949	4.50	1.20	.3/min	16.11	0.369	6.63	11.7	75	4.17	N	3.02	
18	0952	5.40	1.44	.3/min	16.17	0.357	6.78	0	70	4.02	N	3.03	
21	0955	6.30	1.68	.3/min	16.14	0.361	6.69	0	72	4.08	N	3.03	
Previous Log readings													

Sample Date: 5.1.06 **Start Time:** 0956 **End Time:** 1010 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5249

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 15-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.09 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M13-06-A5172 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = .6 mg/L

14 Bottles

Sampler: C. Simpson / A. Nolte

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: M13-07

Purge Date: 5.1.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 55 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

Meter ID#		Results
Personal Air Monitoring: PID:		3.7
LEL:		006
02:		002

Measured Well Depth: 11.30 ft.
Depth to Water (DTW): 3.48 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 7.82 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 4.83 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.48 ft.
Field calculated -- 1 casing vol.*: 4.83 liters
Field calculated -- 3 casing vol.*: 14.49 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:18			.4	16.8	0.707	6.37	5.8	-263	1.24	~~N~~	4.22	
7:21	1.2	0.25	.4	16.8	0.611	6.59	5.1	-288	0.45	Y	4.59	
7:24	2.4	0.50	.4	16.9	0.565	6.83	-2.0	-284	0.31	Y	4.93	
7:27	3.6	0.75	.4	17.0	0.555	6.90	-5.7	-263	0.26	Y	5.17	
7:30	4.8	0.99	.4	16.9	0.549	6.97	-10.	-252	0.22	Y	5.54	Stabilized
							RC					
Previous Log readings												

Sample Date: 5.1.06 **Start Time:** 7:32 **End Time:** 7:58 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5248

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.54 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M13-07-A5173 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 9.4

14 Bottles

Sampler: R. Clegg

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/1/06

Well Number: **M13-08**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 55°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104556	0
LEL:	104556	0
02:	"	0

Measured Well Depth: 32.00 ft.
Depth to Water (DTW): 1.47' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 30.53 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 18.8 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 1.47' ft.
Field calculated -- 1 casing vol.*: 18.8 liters
Field calculated -- 3 casing vol.*: 56.40 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-0C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	0722	.90	.05	.3/min	18.23	0.540	5.42	15.3	80	2.46	N	1.86	
6	0725	1.80	.10	.3/min	18.36	0.517	5.56	15.3	83	1.89	N	2.03	
9	0728	2.70	.14	.3/min	18.45	0.491	5.71	6.5	77	1.54	N	2.05	
12	0731	3.60	.19	.3/min	18.48	0.479	5.84	5.1	71	1.33	N	2.06	
15	0734	4.50	.24	.3/min	18.54	0.474	5.93	26.5	66	1.20	N	2.06	
18	0737	5.40	.29	.3/min	18.56	0.473	6.01	6	61	1.09	N	2.06	
21	0740	6.30	.34	.3/min	18.56	0473	6.08	9.4	57	1.18	N	2.06	
Previous Log readings													

Sample Date: 5/1/06 **Start Time:** 0745 **End Time:** 0805 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5249

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 2.04 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M13-08-A5174 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Forbes Thaw-X

14 Bottles

Sampler: C Simpson / A Roberts

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.1.06

Well Number: **MW410-1**

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 69°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
	PID: 104596	1.4
	LEL: 041206/4	0
	02: " "	0

Measured Well Depth:	13.30' ft.
Depth to Water (DTW):	3.89' ft.
Calculated height of water in well (T=Well Depth - Depth to Water):	9.41 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854:	5.80 liters
Casing Radius (R):	1 inch
Verified Depth to Water:	3.89' ft.
Field calculated -- 1 casing vol.*:	5.80 liters
Field calculated -- 3 casing vol.*:	17.40 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7	1103	.90	.16	.3/min	17.79	0.463	6.98	85	37	4.03	N	3.90	
6	1106	1.80	.31	.3/min	17.76	0.457	6.96	87.5	37	3.48	N	3.91	
9	1109	2.70	.47	.3/min	17.64	0.464	6.98	76.8	23	3.12	N	3.92	
12	1112	3.60	.62	.3/min	17.66	0.479	7.02	46.5	11	2.97	N	3.92	
	1115	4.40	.76	.3/min	17.65	0.491	7.06	31.5	-6	2.91	N	3.93	
	1118	5.40	.93	.3/min	17.64	0.505	7.09	21.7	-15	2.77	N	3.93	
	1121	6.30	1.09	.3/min	17.65	0.524	7.12	10.5	-26	2.68	N	3.96	
	1124	7.20	1.24	.3/min	17.64	0.543	7.16	6	-35	2.50	N	3.97	
	1127	8.10	1.40	.3/min	17.67	0.542	7.19	4.8	-39	2.54	N	3.90	
	1130	9.00	1.55	.2/min	17.67	0.541	7.17	2.1	-36	2.54	N	3.59	
Previous Log readings													

Sample Date: 5.1.06 **Start Time:** 1132 **End Time:** 1200

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-052249 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 6.0' **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	3	3	3	1	2	1	1	2	1	1	2	2	2	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW410-1-A5176	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS/MSD Ferrous Iron = .4 mg/L

X 14 Bottles

Sampler: C. Simpson / A. Nolet

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.1.06

Well Number: MW410-2

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 65 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		
LEL:		
02:		

Measured Well Depth: 15.27 ft.
Depth to Water (DTW): 5.10 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.17 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.28 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 5.10 ft.
Field calculated -- 1 casing vol.*: 6.28 liters
Field calculated -- 3 casing vol.*: 18.84 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
11:07			.4	16.4	0.748	7.19	1.2	62	9.16	N	5.16	
11:10	1.2	0.19	.4	16.3	0.773	7.39	-5.6	63	8.18	N	5.17	
11:13	2.4	0.38	.4	16.2	0.788	7.48	-8.1	63	7.40	N	5.17	
11:16	3.6	0.57	.4	16.2	0.793	7.53	-9.2	63	6.90	N	5.17	Stabilized
							RC					
Previous Log readings												

Sample Date: 5.1.06 **Start Time:** 11:20 **End Time:** 11:45 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5248

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.17 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW410-2-A5177 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron - 8.2

14 Bottles

Sampler: R. Chandle

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **MWD13-3**

Purge Date: 5.1.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 75°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104558	0
LEL:	042306 14	0
02:	11 4	0

Measured Well Depth: 14.27 ft.

Depth to Water (DTW): ~~13.14~~ 3.14 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.13 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.8 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 3.14 ft.

Field calculated -- 1 casing vol.*: 6.6 liters

Field calculated -- 3 casing vol.*: 20.4 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1411	.90	.13	.3l/min	16.57	0.276	8.23	163	-49	4.33	N	3.16	
6	1414	1.80	.26	.3l/min	16.40	0.274	7.98	147	-38	2.76	N	3.16	
9	1417	2.70	.40	.3l/min	16.30	0.274	7.88	115	-78	2.29	N	3.18	
12	1419	3.60	.53	.3l/min	16.27	0.272	7.83	92	-1414	1.91	N	3.19	
15	1420	4.50	.66	.3l/min	16.18	0.272	7.81	83.7	-186	1.74	N	3.22	
18	1423	5.40	.79	.3l/min	16.18	0.273	7.81	67.6	-166	1.73	N	3.23	
21	1426	6.30	.93	.3l/min	16.16	0.270	7.79	59.4	-172	1.70	N	3.26	
Previous Log readings													

Sample Date: 5.1.06 **Start Time:** 1430 **End Time:** 1450

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5249 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75/66 mL/min

Final Depth to Water 4.11 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH			NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MWD13-3-A5181	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 0

14 Bottles

Sampler: C. Simp M. Dick

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.1.06

Well Number: **MWD13-4**

Weather: Sunny / Cloudy, Rain, Windy, Hot Temperature: 72.7 Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104558	0
LEL:	042306 14	0
02:	" "	0

Measured Well Depth: 15.05 ft.
Depth to Water (DTW): 4.34' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.71 ft.

One Casing Volume=[0.163 x T(ft) x R(inches)] x 3.7854: 6.60 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.34 ft.
Field calculated -- 1 casing vol.*: 6.60 liters
Field calculated -- 3 casing vol.*: 19.80 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1308	.90	.14	.3/min	18.98	0.480	8.09	165	20	4.54	N	4.34	
6	1311	1.80	.27	.3/min	18.95	0.482	8.23	169	-90	3.39	N	4.35	
9	1314	2.70	.41	.3/min	18.90	0.488	8.41	147	-136	2.76	N	4.35	
12	1317	3.60	.55	.3/min	18.94	0.492 *	8.52	124	-156	2.42	N	4.36	* 0.492
15	1320	4.50	.68	.3/min	18.86	0.497	8.61	103	-165	2.25	N	4.37	
18	1323	5.40	.82	.3/min	18.92	0.504	8.75	87.2	-175	2.10	N	4.38	
21	1326	6.30	.95	.3/min	18.89	0.510	8.91	~~875.5~~	-181	1.95	N	4.39	
24	1329	7.20	1.09	.3/min	18.87	0.516	9.01	69.6	-188	1.82	N	4.41	
27	1332	8.10	1.23	.3/min	19.00	0.522	9.13	65.7	-194	1.69	N	4.41	
30	1335	9.00	1.36	.3/min	19.00	0.521	9.15	60.3	-199	1.69	N	4.42	
Previous Log readings													

Sample Date: 5.1.06 **Start Time:** 1335 **End Time:** 1400 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TDJ - A5249

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used. Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.01 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	~~HCL~~ ~~N/A~~	Un-preserved	~~N/A~~ ~~HCL~~	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MWD13-4-A5182	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Lamar Trip

14 Bottles

Sampler: [illegible]

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 16

Event: Spring2006

Purge Date: 5.1.06

Well Number: **608MJ-MW2**

Weather: ~~Sunny~~ Cloudy, Rain, Windy, Hot Temperature: 70 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:	/	0

Measured Well Depth: 12.0 ft.
Depth to Water (DTW): 3.11 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 8.89 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.49 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.11 ft.
Field calculated -- 1 casing vol.*: 5.49 liters
Field calculated -- 3 casing vol.*: 16.47 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
13:46			.4	16.8	0.880	7.03	-1.0	56	5.95	N	3.21	
13:49	1.2	0.22	.4	16.6	0.884	6.59	31.7	73	3.70	N	3.23	
13:52	2.4	0.44	.4	16.8	0.870	6.57	0.7	73	3.24	N	3.23	
13:55	3.6	0.66	.4	16.9	0.834	6.73	-7.5	67	2.94	N	3.23	
13:58	4.8	0.87	.4	16.9	0.799	6.88	-8.7	62	2.63	N	3.24	
14:01	6.0	1.09	.4	16.9	0.767	6.91	-10.0	59	2.39	N	3.24	
14:04	7.2	1.31	.4	16.9	0.743	6.93	-9.7	57	2.12	N	3.24	
14:07	8.4	1.53	.4	16.9	0.721	6.95	-10.0	55	1.99	N	3.24	
14:10	9.6	1.75	.4	16.9	0.706	6.97	-10.0	54	1.79	N	3.25	Stabilized
							RC					
Previous Log readings												

Sample Date: 5.1.06 **Start Time:** 14:15 **End Time:** 14:45 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5248

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.25 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
608MJ-MW2-A5186 NS	X	X	X	X			X	X	X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 8

17 Bottles

Sampler: R. Chapple

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TBI-A5247
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 1

DATE (YYYMMDD) 2006/05/01

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. D. Lenzen

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5248
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYMMDD) 2006/05/01 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☒ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. D. Cey

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5249
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 3

DATE (YYYMMDD) 2006/05/01 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. D. Cayer

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 5/2/06 Time: 0630 Page: 1 of 1
Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11
Work Description:

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357
Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue
Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A
Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling
Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
[illegible]	[signature]	Mactec			
Anthony S Deakel	[signature]	MACTEC			
R. CHAPPLE	A. Chapple	ITSI			
Kimberly Tan	[signature]	ITSI			
Brian Lee	[signature]	ITSI			
Shawn Baker	[signature]	EQI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name printed) [signature] (Signature)
Site Superintendent: J.D. LENZEN (Name printed) [signature] (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 5/2/06
REPORT NO 214

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☑

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☑

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 9, 16 and 25
	Sampling at Site 9 is 100% complete
	Sampling at Site 16 is 100% complete
	Sampling at Site 25 is 56% complete
	Base-wide groundwater sampling is 83% complete
	There have been no re-sample wells
	Seventeen wells were sampled and shipped to the lab for analysis

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Soil gas sampling will begin 5/3/06

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Stuart A. Elli 5/2/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	5/2/06
FIELD ACTIVITY DAILY LOG	Report	214

Project Name: Alameda Basewide Groundwater Monitoring — Project No 02-125.11

Activity Subject: Sampling of Basewide Program Monitoring Wells

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Kimberly Tom	Field Tech	10	**ERI**		
Robyn Chapple	Field Tech	10	Shawn Baker	Field Tech	10

Total Work Hours On Job Site This Date inc. Cont. Sheet	80
Cumulative Total of Work Hours From Previous Report	1042
Total Work Hours On Job Site From Start Of Construction	1122

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
Ford Aerostar	4/10/2006				
Ford F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 9, 16 and 25
Four wells sampled at Site 9
Four wells sampled at Site 16
Nine wells sampled at Site 25
Seventeen total groundwater samples collected and shipped to the lab

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS: Clear, sunny with afternoon breeze

SIGNATURE: [signature] DATE: 5/2/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date:	Page of
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11
Work Description:		
Subcontractors/Visitors:		
Weather:		

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 on site at ITSI Trailer LEC # 9950049 PROJ # 1854565
0615 Calibrate meters / Collect sampling supplies
0708 @ D02 - well abandoned.
0715 @ M25-05 DTW = 10.29' TD = 19.61 Sample # M25-05-A5196 @ 0810
0910 @ M25-07 DTW = 4.64' TD = 19.35 Sample # M25-07-A5198 @ 0940
1000 @ M25-01 DTW = 5.70 TD = 19.42 Sample # M25-01-A5193 @ 1035
1120 @ M25-02 DTW = 4.75 TD = 19.77 Sample # M25-02-A5194 @ 1150
1230 @ M25-04 DTW = 3.95 TD = 19.52 Sample # M25-04-A5195 @ 1300
1330 @ M13-09 DTW = 1.89' TD = 12.20 Sample # M13-09-A5175 @ 1410
1500 at Trailer & QC / Check in Samples

CLJ 5.2.06

Prepared by:	C. Simpson	Signature:	CLJ	Date:	5.2.06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5-02-06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.:	02 125.11
Work Description: Monitor well samples			
Subcontractors/Visitors:			
Weather: Sun/warm.			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: arrived on site, loaded trucks with equipment - calibrated meters
0630: attended Tailgate safety meeting
0700: located sample wells at site 16
0807: Set up and started purge on F16SS-MW06
0825: collected sample F16SS-MW06-A5187
0925: Set up and started purge on MWC2-3
0950: Collected sample MWC2-3-A5191 and MS/MSD volume
1130: Set up and started purge on MWOR-4
1150: Collected sample MWOR-4-A5183
1234: Set up and started purge on MW16-05
1245: Collected sample MW16-05-A5188
1330: Moved to site 25
1344: Set up and started purge on S-35R-2
1400: Collected sample S-35-R-2-A5207
1445: delivered samples back to the field office; unloaded Truck
1500: completed paperwork
1600:

Prepared by:	B-SC	Signature:		Date:	5-02-06

ITSI Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5.2.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Well Sampling at Sites 9, 16 & 25			
Subcontractors/Visitors:			
Weather: Sunny & Hot			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-07:00 - Tailgate Safety mtg, calibration & loading of equipment.
07:00-08:10 - Purged and sampled well # M16-06 & FD.
08:20-09:15 - Purged and sampled well # MW410-4 & FD.
09:20-10:15 - Purged and sampled well # MW410-3 & MS/MSD
10:25-10:40 - Drop off coolers @ trailer and pick-up more coolers.
10:50-12:15 - Sampled and purged well # M25-06 (MS/MSD).
12:30-13:00 - Lunch.
13:05-14:00 - Purged and sampled well # P181-MW-45.
14:05-14:55 - Purged and sampled well # P181MW-46.
15:00-16:00 - Unloaded equipment.

RC

Prepared by:	R. Chapple	Signature:	R. Chapple	Date:	5-2-06

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M13-09**

Purge Date: 5.2.06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 75°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104505	0
LEL:	995 0049	0
02:		0

Measured Well Depth: 12.20' ft.

Depth to Water (DTW): 1.89' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.31 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.3 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 1.89' ft.

Field calculated -- 1 casing vol.*: 6.3 liters

Field calculated -- 3 casing vol.*: 12.72 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/-10% or 0.3)	(Y/N)	ft	
3	1340	.90	.14	.3/min	18.55	0.633	6.03	145	9	3.71	N	2.13	
6	1343	1.80	.28	.3/min	18.72	0.630	6.01	139	11	2.62	N	2.98	
9	1346	2.70	.42	.3/min	18.76	0.628	6.06	115	9	2.10	N	2.99	
12	1349	3.60	.57	.3/min	18.79	0.623	6.10	102	5	1.79	N	3.00	
15	1352	4.50	.71	.3/min	18.90	0.606	6.15	74	-7	1.39	N	3.08	
18	1355	5.40	.85	.3/min	18.95	0.600	6.16	66	-9	1.32	N	3.14	
21	1358	6.30	.99	.3/min	19.03	0.571	6.19	49.8	-12	1.30	N	3.20	
24	1401	7.20	1.13	.3/min	19.16	0.557	6.21	39	-11	1.42	N	3.28	
27	1404	8.10	1.27	.3/min	19.18	0.567	6.22	25	-10	1.52	N	3.36	
30	1407	9.00	1.42	.3/min	19.04	0.570	6.23	23.8	-10	1.53	N	3.40	
Previous Log readings	~~See Continuation Form~~												

Sample Date: 5.2.06 **Start Time:** 1410 **End Time:** 1435

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB1-A5252 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 4.12 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M13-09-A5175 NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

14 Bottles Samplers: [illegible]

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4658**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M13-09-A5175*	5.2.06	1410				X					X			X	X	X											

SAMPLED BY: C. Simpson / A. Dalet
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson CWS
Printed Name Signature
ITSI
Company
5.2.06/1530
Date and Time

RECEIVED BY: Tony Rojas
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
_____
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4661
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MW410-3-A5178*	5.2.06	9:45				X					X			X	X	X											MS/MSD
												EC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.2.06 11:00 (Date and Time)

RECEIVED BY: AARON CRAWFORD (Printed Name) A-Crawford (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4662
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
MW410-4-A5179*	5-2-06	8:40				X					X			X	X	X											
MW410-4-A5180*	5-2-06	8:50				X					X			X	X	X											
											RC																

SAMPLED BY: R Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5-2-06 11:00 (Date and Time)
RECEIVED BY: AARON GREIB (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4665**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
MWOR-4-A5183*	5/02/06	1150				X					X			X	X	X											

SAMPLED BY: B. Lee
SIGNATURE: Brian P. Lee
RELINQUISHED BY: Brian Lee — Printed Name — Brian P. Lee — Signature
ITSI — Company — 5/02/06 — Date and Time
RECEIVED BY: Tracy Rojas — Printed Name — Signature

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: _____ Printed Name _____ Signature
_____ Company _____ Date and Time
RECEIVED BY: _____ Printed Name _____ Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4669**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
F16SS-MW06-A5187	5/02/06	0825							X	X				X	X	X										X	

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) Brian P. Dee (Signature)
ITSI (Company) 5/02/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4670**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MW16-05-A5188*	5/02/06	1245							X	X	X			X	X	X								X			

SAMPLED BY: B. Lee
SIGNATURE: Brian Lee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Lee — Brian Lee
Printed Name — Signature
ITSI — 5/02/06
Company — Date and Time

RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature
_____ — _____
Company — Date and Time

RECEIVED BY: _____ — _____
Printed Name — Signature

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4671
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
MW16-06-A5189*	5.2.06	7:28							X	X	X			X	X	X								X			
MW16-06-A5190*	5.2.06	7:38							X	X	X			X	X	X								X			
											RC																

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple
SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple — R. Chapple
Printed Name — Signature
ITSI — 5.2.06 11:00
Company — Date and Time
RECEIVED BY: AARON GRENER — [signature]
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature
_____ — _____
Company — Date and Time
RECEIVED BY: _____ — _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4672
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
MWC2-3-A5191*	5/02/06	0950				X			X	X	X			X	X	X								X			MS/MSD

SAMPLED BY: Brian Dee
SIGNATURE: Brian F. Dee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: B. Dee (Printed Name) Brian F. Dee (Signature)
ITSI (Company) 5/02/06 (Date and Time)

RECEIVED BY: AARON GRIESHER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4674**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M25-01-A5193	5.2.06	1035						X			X			X	X	X											

SAMPLED BY: C. Simpson / A. Drake
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson [signature]
Printed Name Signature
PTSI
Company
5.2.06
Date and Time

RECEIVED BY: Aaron Cartner [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4675**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M25-02-A5194	5.2.06	1150						X			X			X	X	X											

SAMPLED BY: C. Simpson / A. Priolet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — Printed Name; [signature] — Signature
FTS — Company; 5.2.06 1530 — Date and Time
RECEIVED BY: Tony Rojas — Printed Name; [signature] — Signature

RELINQUISHED BY: _____ Printed Name; _____ Signature
_____ Company; _____ Date and Time
RECEIVED BY: _____ Printed Name; _____ Signature

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4676**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M25-04-A5195	5.2.06	1300						X			X			X	X	X											

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — Printed Name; Signature
ITSI — Company
5.2.06 / 1530 — Date and Time

RECEIVED BY: Tony Rojas — Printed Name; Signature

RELINQUISHED BY: _____ Printed Name; Signature
Company; Date and Time

RECEIVED BY: _____ Printed Name; Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4677**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M25-05-A5196	5.2.06	0810						X			X			X	X	X											

SAMPLED BY: C.Simpson / A. Dalton
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) / (Signature)
ITSI (Company) / 5.2.06 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) / (Signature)

RELINQUISHED BY: _____ (Printed Name) / (Signature)
_____ (Company) / (Date and Time)
RECEIVED BY: _____ (Printed Name) / (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4678
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Za AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M25-06-A5197	5.2.06	11:55						X																			MS/MSD
											RC																

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
iTSI (Company) 5.2.06 12:00 (Date and Time)

RECEIVED BY: AARON GREWER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4679**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M25-07-A5198	5.2.06	0940	~~X~~ GE					X																			

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: C. Simpson

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) C. Simpson (Signature)
ITSI (Company) 5.2.06 (Date and Time)

RECEIVED BY: AARON GIENTHER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4682**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
P181-MW45-A5202	5.2.06	13:37						X			X			X	X	X											
											RC																

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.2.06 15:00 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4683**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
P181-MW46-A5203	5.2.06	14:35						X			X			X	X	X											

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.2.06 15:00 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4687**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
S-35R-2-A5207	5/02/06	1400						X			X			X	X	X											

SAMPLED BY: B. Dee
SIGNATURE: Brian Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) Brian Dee (Signature)
ITSI (Company) 5/02/06 (Date and Time)

RECEIVED BY: Tony Reyes (Printed Name) Tony Reyes (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4729
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB1-A5230	5/02/06	0700	X																								
~~FIGSS-MW06-A5185~~	~~5/02/06~~	~~0825~~	~~X~~	~~X~~																							
FIGSS-MW06-A5187	5/02/06	0825	X	X																							
MW02-3-A5191	5/02/06	0950	X	X	X																						MS/MSD
MW08-4-A5183	5/02/06	1150	X	X	X																						
MW16-05-A5188	5/02/06	1245	X	X																							
S-35R-2-A5207	5/02/06	1900	X	X																							

SAMPLED BY: Shawn Baker
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Shawn Baker — Printed Name / Signature
ITSI — Company
5-2-06 1440 — Date and Time

RECEIVED BY: Tony Rojas — Printed Name / Signature

RELINQUISHED BY: _____ — Printed Name / Signature
Company / Date and Time

RECEIVED BY: _____ — Printed Name / Signature

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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4730**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
TB2-A5251	5.2.06	7:00	X																								
MW16-06-A5189	5.2.06	7:28	X	X																							
MW16-06-A5190	5.2.06	7:38	X	X																							
MW410-4-A5179	5.2.06	8:40	X	X	X																						
MW410-4-A5180	5.2.06	8:50	X	X	X																						
MW410-3-A5178	5.2.06	9:45	X	X	X																						MS/MSD
M25-06-A5191	5.2.06	11:35	X																								MS/MSD
P181-MW45-A5202	5.2.06	13:37	X	X																							
P181 MW46-A5203	5.2.06	14:35	X	X																							
													RC														

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.2.06 15:00 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4731
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	HCl Outris	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
TB3-A5252	5.2.06	0700	X																								
★ M25-05-A5196	5.2.06	0810	X	X																							
M25-07-A5198	5.2.06	0940	X																								
★ M25-01-A5193	5.2.06	1035	X	X																							
M25-02-A5194	5.2.06	1150	X	X																							
M25-04-A5195	5.2.06	1300	X	X																							
M13-09-A5175	5.2.06	1410	X	X	X																						

SAMPLED BY: C. Simpson / A. Aslett
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:
★ All VOA's have no HCL preservative

RELINQUISHED BY: Chad Simpson — CWS
Printed Name — Signature
ITSI — 5.2.06 1530
Company — Date amd Time

RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____ Printed Name — Signature
_____ Company — Date amd Time

RECEIVED BY: _____ Printed Name — Signature

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.2.06

Well Number: **MW410-3**

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 70 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 34.2 ft.
Depth to Water (DTW): 3.67 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 30.53 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 18.84 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.67 ft.
Field calculated -- 1 casing vol.*: 18.84 liters
Field calculated -- 3 casing vol.*: 56.52 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
9:23			.4	20.60	0.413	7.48	0.1	12	5.05	N	3.75	
9:26	1.2	0.06	.4	20.03	0.421	7.42	0.1	38	2.49	N	3.75	
9:29	2.4	0.13	.4	19.94	0.422	7.45	0.1	44	2.51	N	3.75	
9:32	3.6	0.19	.4	19.87	0.422	7.46	0.0	45	1.91	N	3.75	
9:35	4.8	0.25	.4	19.83	0.425	7.49	0.0	44	1.62	N	3.75	
9:38	6.0	0.32	.4	19.79	0.427	7.51	0.0	44	1.53	N	3.75	
9:41	7.2	0.38	.4	19.77	0.428	7.51	0.1 RC	45	1.48 RC	N	3.75	
Previous Log readings												

Sample Date: 5.2.06 **Start Time:** 9:45 **End Time:** 10:13 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5257

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water _____ **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE	Ice + Preservative	HCL	Unpreserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW410-3-A5178	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 15/MSD Ferrous Iron - 8

14 Bottles

Sampler: R. Cripple

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **MW410-4**

Purge Date: 5-2-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 65 **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:		0
LEL:		0
02:		0

Measured Well Depth: 13.50 ft.

Depth to Water (DTW): 4.02 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.48 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.85 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 4.02 ft.

Field calculated -- 1 casing vol.*: 5.85 liters

Field calculated -- 3 casing vol.*: 17.55 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
8:27			.4	21.01	0.312	7.8	0.1	20	7.02	N	4.10	
8:30	1.2	0.20	.4	20.73	0.312	7.94	0.0	39	5.26	N	4.08	
8:33	2.4	0.41	.4	20.65	0.311	8.03	0.0	44	4.91	N	4.08	
8:36	3.6	0.62	.4	20.61	0.306	8.08	0.0	47	4.87	N	4.08	Stabilized
Previous Log readings												

RC

Sample Date: 5-2-06 **Start Time:** 8:40 **End Time:** 9:10 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5251

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.08 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate
Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE
MW410-4-A5179	NS	X	X	X	X					X*			X
MW410-4-A5180*	FD	X	X	X	X					X*			X

WELL ID & SAMPLE TYPE		Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Ice + Preservative		---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
Number of Containers		1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW410-4-A5179	NS	X	X									X	
MW410-4-A5180*	FD	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 0.2

28 Bottles

Sampler: RC [illegible]

IR Site 9

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5-2-06

Well Number: **MWOR-4**

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
	PID: 104557	0.0
	LEL: 423013	0.0
	02: 11 11	20.0

Measured Well Depth: 59.91 ft.

Depth to Water (DTW): 2.52 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 57.39 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 35.41 liters

Casing Radius (R): 1.5 inch

Verified Depth to Water: 2.52 ft.

Field calculated -- 1 casing vol.*: 35.41 liters

Field calculated -- 3 casing vol.*: 106.23 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1130	0.0	0.0	300ml/m	19.5	2.32	6.73	48.2	91	6.84	N	2.88	
1133	.9	.02		19.2	2.34	7.02	27.9	79	4.55	N	2.90	
1136	1.8	.05		19.2	2.38	7.08	24.3	76	3.64	N	2.92	
1139	2.7	.07		19.1	2.37	7.11	21.1	75	3.49	N	2.94	
1142	3.6	.10		19.1	2.39	7.12	7.3	74	3.40	N	2.94	
Previous Log readings												

Sample Date: 5-2-06 **Start Time:** 1150 **End Time:** 1158 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1 A5250

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 2.88 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MWOR-4-A5183	NS	X	X	X	X					X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe: 0.0 Mg/l samples clear

14 Bottles

Sampler: Shey Baker

IR Site 16

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5-2-06

Well Number: **F16SS-MW06**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 54 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104557	0.0
LEL:	423013	0.0
02:	"	20.8

Measured Well Depth: 14.94 ft.
Depth to Water (DTW): 4.55 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.39 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.41 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.55 ft.
Field calculated -- 1 casing vol.*: 6.41 liters
Field calculated -- 3 casing vol.*: 19.23 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
0804	0.0	0.0	~~300 ml/m~~ 0.0 SWB	16.8	.619	5.21	-1.9	198	8.02	N	4.65	
0807	.9	.H		17.1	.546	6.12	-8.2	162	6.22	N	4.79	
0810	1.8	.28		17.2	.532	6.29	-9.9	153	6.01	N	4.80	
0813	2.7	.42		17.2	.521	6.57	-10.0	143	5.83	N	4.81	
0816	3.6	.56		17.3	.520	6.66	-10.0	137	5.79	N	4.81	
0819	4.5	.70		17.3	.519	6.70	-10.0	132	5.69	N	4.81	
0822	5.4	.84	→	17.3	.518	6.79	-10.0	129	5.73	N	4.81	
Previous Log readings												

Sample Date: 5-2-06 **Start Time:** 0825 **End Time:** 0840 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1A5250

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.80 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
F16SS-MW06-A5187 NS	X	X					X	X				X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: FB: 0804 MS/MSD Samples: 2 bottles 12 Bottles Sampler: Blake Baker

IR Site 16

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **MW16-05**

Purge Date: 5-2-06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 61 Sample Team: [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring:	Meter ID#	Results
	PID: 104557	0.0
	LEL: 423013	0.0
	02: " "	20.7

Measured Well Depth: 15.21 ft.

Depth to Water (DTW): 4.81 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.40 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 25.70 liters (.653)

Casing Radius (R): 2 inch

Verified Depth to Water: 4.81 ft.

Field calculated -- 1 casing vol.*: 25.70 liters

Field calculated -- 3 casing vol.*: 77.1 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1234	0.0	0.0	300 ml/m	20.0	3.24	7.52	47.5	-116	7.28	N	4.95	
1237	.9	103		19.4	3.23	7.51	38.4	-121	7.35	N	5.00	
1240	1.8	107		19.3	3.27	7.53	21.8	-125	7.74	N	5.00	
Previous Log readings												

Sample Date: 5-2-06 **Start Time:** 1245 **End Time:** 1258 **Equipment Blank Collected:** ____ **Trip Blank Collected:** TB1 A5250

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100. mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.99 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW16-05-A5188	NS	X	X					X	X	X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe = 0.0 mg/l Samples! cle

13 Bottles

Sampler: Shay Baker

IR Site 16

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.2.06

Well Number: **MW16-06**

Weather: ~~Sunny~~, Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

Meter ID#		Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 14.7 ft.
Depth to Water (DTW): 3.22 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.48 ft.

0.653
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 28.38 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 3.22 ft.
Field calculated -- 1 casing vol.*: 28.38 liters
Field calculated -- 3 casing vol.*: 85.14 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:13			.4	19.67	0.332	6.71	0	53	4.90	N	3.44	
7:16	1.2	0.04	.4	19.57	0.330	7.53	-0.2	57	3.69	N	3.57	
7:19	2.4	0.08	.4	19.42	0.330	7.73	-0.1	52	3.43	N	3.63	
7:22	3.6	0.13	.4	19.39	0.331	7.77	-0.1	50	3.36	N	3.67	
7:25	4.8	0.17	.4	19.34	0.330	7.82	-0.1	48	3.27	N	3.67	Stabilize
						RC						
Previous Log readings												

Sample Date: 5.2.06 **Start Time:** 7:28 **End Time:** 8:05 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A525)

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min
1/day/team when portable pump (or other non disposable reusable equipment) is used
Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.67 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MW16-06-A5189 NS	X	X					X	X	X*			X	X	X								X	X	
MW16-06-A5190* FD	X	X					X	X	X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 8.4

26 Bottles

Sampler: R Charde

IR Site 16

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **MWC2-3**

Purge Date: 5-2-06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 56 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	184557	0.0
LEL:	423013	0.0
02:	11 11	20.0

Measured Well Depth: 13.81 ft.

Depth to Water (DTW): 1.90 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.91 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 7.34 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 1.90 ft.

Field calculated -- 1 casing vol.*: 7.34 liters

Field calculated -- 3 casing vol.*: 2.44 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0925	0.0	0.0	300ml/m	17.4	.217	6.99	85.1	93	6.13	N	2.02	
0928	.9	.12		16.9	.212	6.87	15.5	89	4.38	N	2.02	
0931	1.8	.24		16.6	.244	6.88	8.9	82	3.70	N	2.03	
0934	2.3	.31		16.5	.255	6.92	.3	76	3.62	N	2.02	
0937	3.6	.49		16.5	.259	7.00	-6.2	70	2.86	N	2.02	
0940	4.5	.61		16.5	.260	7.08	11.0	64	2.78	N	2.02	
0943	5.4	.73		16.5	.262	7.12	-8.7	61	2.71	N	2.02	
Previous Log readings												

Sample Date: 5-2-06 **Start Time:** 0950 **End Time:** 1045

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TBIA5250 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water ~~MNB 1.90~~ 1.90 **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
MWC2-3-A5191	NS	X	X	X	X			X	X	X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS/MSD Fe = 0.0 mg/l Sample Clear

17 Bottles

Sampler: Shaw Baker

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M25-01**

Purge Date: 5.2.06

Weather: (Sunny) Cloudy, Rain, Windy, Hot   Temperature: 69°F   Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104565	3.6
LEL:	9950049	>100
02:	"	" 0

Measured Well Depth: 19.42' ft.

Depth to Water (DTW): 5.70' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 13.72 ft.

One Casing Volume= ~~[0.163 x~~ T(ft) x R(inches)] x 3.7854: 1653 67.8 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 5.70 ft.

Field calculated -- 1 casing vol.*: 67.8 liters

Field calculated -- 3 casing vol.*: 203.5 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-0C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1008	.90	.01	.3/min	19.27	46.8	6.93	>1,000	-217	2.60	Y	5.80	
6	1011	1.80	.03	.3/min	17.86	44.6	6.92	>1,000	-211	1.96	Y	5.91	
9	1014	2.70	.04	.3/min	17.88	43.7	6.90	>1,000	-210	1.62	Y	6.00	
12	1017	3.60	.05	.3/min	17.74	43.5	6.90	>1,000	-209	1.37	Y	6.04	
15	1020	4.50	.07	.3/min	17.70	43.3	6.90	>1,000	-206	1.24	Y	6.07	
18	1023	5.40	.08	.3/min	17.67	43.2	6.90	>1,000	-208	1.16	Y	6.09	
21	1026	6.30	.09	.3/min	17.62	43.2	6.90	~~>1~~ 612	-207	1.06	Y	6.10	
24	1029	7.20	.11	.3/min	17.58	43.4	6.90	629	-207	1.01	Y	6.12	
27	1032	8.10	.12	.3/min	17.60	43.3	6.90	611	-209	1.01	Y	6.13	
Previous Log readings													

Sample Date: 5.2.06   Start Time: 1035   End Time: 1050   Equipment Blank Collected: ________   Trip Blank Collected: TB3-A5252

Pump Collected With: Peristaltic   Volatile Sample Flow Rate: 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water: 7.12   MS/MSD ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 LA	1 LA	1 LA	1 LA	1 LA	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-01-A5193	NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered   *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: water dark gray in color - slight odor. Ferrous Iron = >10 mg/l

12 Bottles

Sampler: [illegible]

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.2.06

Well Number: **M25-02**

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 72°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring: PID: 104565 Meter ID# — Results 5.5; LEL: 995084849 — >100; O2: 11 a — 0

Measured Well Depth: 19.77' ft.

Depth to Water (DTW): 4.75' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 15.02 ft.

One Casing Volume= [~~0.163~~ .653 x T(ft) x R(inches)] x 3.7854: 74.25 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 4.75 ft.

Field calculated -- 1 casing vol.*: 74.25 liters

Field calculated -- 3 casing vol.*: 222.76 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1125	.90	.01	.3/min	16.50	26.7	7.27	180	-279	4.74	Y	4.75	
6	1128	1.80	.02	.3/min	16.34	9.41	7.11	201	-294	2.14	Y	4.77	
9	1131	2.70	.01	.3/min	16.20	7.73	6.89	215	-299	1.35	Y	4.79	
12	1134	3.60	.05	.3/min	16.18	7.51	6.78	126	-299	1.00	Y	4.79	
15	1137	4.50	.06	.3/min	16.18	7.55	6.72	119	-296	0.87	Y	4.80	
18	1140	5.40	.07	.3/min	16.17	7.27	6.69	113	-294	0.81	Y	4.81	
21	1143	6.30	.06	.3/min	16.16	7.18	6.66	122	-297	0.81	Y	4.83	
24	1146	7.20	.10	.3/min	16.16	7.16	6.65	111	-293	0.77	Y	4.85	
27	1149	8.10	.11	.3/min	16.16	7.14	6.64	121	-299	0.77	Y	4.87	
Previous Log readings													

Sample Date: 5.2.06 **Start Time:** 1150 **End Time:** 1210

Equipment Blank Collected: — 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5252 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 5.01 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	~~Un-HCl preserved~~	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-02-A5194	NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: Ferrous Iron: 2.4 mg/L

12 Bottles

Sampler: C. Sie, A. Dalet

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: M25-04 Purge Date: 5.2.06

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 72°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	0.1
LEL:	9950949	10
02:	"	0

Measured Well Depth: 19.52' ft.
Depth to Water (DTW): 3.95' ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 15.57 ft.

One Casing Volume= [~~0.163~~ 1.653 x T(ft) x R(inches)] x 3.7854: 76.9 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 3.95 ft.
Field calculated -- 1 casing vol.*: 76.9 liters
Field calculated -- 3 casing vol.*: 230.9 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	1235	.90	.01	.3/min	17.59	0.405	7.09	124	-95	5.41	Y	4.12	
6	1238	1.80	.02	.3/min	17.51	0.396	6.58	149	-63	2.53	Y	4.29	
9	1241	2.70	.04	.3/min	17.50	0.392	6.45	1415	-55	2.00	Y	4.39	
12	1244	3.60	.05	.3/min	17.51	0.383	6.35	153	-48	1.65	Y	4.45	
15	1247	4.50	.06	.3/min	17.51	0.378	6.28	129	-44	1.48	Y	4.51	
18	1250	5.40	.07	.3/min	17.54	0.376	6.24	129	-40	1.36	Y	4.55	
21	1253	6.30	.08	.3/min	17.54	0.373	6.20	100	-38	1.23	Y	4.58	
24	1256	7.20	.09	.3/min	17.54	0.371	6.19	129	-36	1.18	Y	4.61	
27	1259	8.10	.11	.3/min	17.54	0.371	6.18	88.9	-36	1.17	Y	4.65	
Previous Log readings													

Sample Date: 5.2.06 Start Time: 1300 End Time: 1315 Equipment Blank Collected: _____ Trip Blank Collected: TB3-A5252

Pump Collected With: Peristaltic Volatile Sample Flow Rate: 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.22 MS/MSD ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-04-A5195	NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Formalin Trap = 0

12 Bottles

Sampler: C. Simmons / A. Dalat

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M25-05**

Purge Date: 5.2.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 60°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	184565	2.5
LEL:	~~995~~ 0849	>100
02:		0

Measured Well Depth: 19.61 ft.

Depth to Water (DTW): 10.29 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.32 ft.

One Casing Volume= ~~[0.163~~ x T(ft) x R(inches)] x 3.7854: 46 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 9.32 ft.

Field calculated -- 1 casing vol.*: 46 liters

Field calculated -- 3 casing vol.*: 138 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
2	0743	1.60	.01	.3 l/min	17.93	53.3	6.18	42.7	-218	2.30	Y	10.31	Start Rdg
5	0746	1.50	.03	.3 l/min	17.91	50.9	6.43	52.3	-236	1.74	Y	10.33	
10	0751	3.00	.07	.3 l/min	17.82	42.6	6.60	18.4	-275	2.06	Y	10.35	
17	0754	3.90	.04	.3 l/min	17.77	40.5	6.66	4.0	-294	1.94	Y	10.36	
20	0759	5.40	.12	.3 l/min	17.70	39.7	6.71	14.8	-307	1.99	Y	10.39	BD OR 11
23	0804	6.90	.15	.3 l/min	17.70	39.6	6.75	37.1	-309	2.01	Y	10.42	
26	0807	7.80	.17	.3 l/min	17.70	39.6	6.74	27.6	-310	2.02	Y	10.42	
Previous Log readings													

Sample Date: 5.2.06 **Start Time:** 0616 **End Time:** 0630

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5252 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 11.17 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-05-A5196	NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 1.2 mg/L

12 Bottles

Sampler: C. Sin / A. Aslet

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.2.06

Well Number: **M25-06**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 70 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 20.30 ft.
Depth to Water (DTW): 8.00 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 12.3 ft.

0.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 30.40 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 8.00 ft.
Field calculated -- 1 casing vol.*: 30.40 liters
Field calculated -- 3 casing vol.*: 91.2 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
11:17			.4	18.96	65.2	6.99	0.0	-179	3.21	N	8.16	
11:20	1.2	0.04	.4	18.73	65.4	6.78	0.0	-193	1.32	N	8.46	
11:23	2.4	0.08	.4	18.69	65.1	6.78	8.3	-196	1.06	N	8.70	
11:26	3.6	0.12	.4	18.66	64.8	6.78	18.4	-196	0.86	N	8.87	
11:29	4.8	0.16	.4	18.63	64.7	6.78	30.4	-196	0.66	N	9.00	
11:32	6.0	0.20	.4	18.65	64.5	6.78	84.5	-195	0.50	N	9.14	Stabilized
						RC						
Previous Log readings												

Sample Date: 5.2.06 **Start Time:** 11:35 **End Time:** 12:05 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB-A5251

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 9.14 **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-06-A5197	NS	X					X																		

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS/MSD

5 Bottles

Sampler: R. Chapple

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.2.06

Well Number: **M25-07**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** ____ **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104565	0
LEL:	995 0649	0
02:	" "	6

Measured Well Depth: 19.35 ft.

Depth to Water (DTW): 4.64 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 14.71 ft.

One Casing Volume= ~~[0.163~~ x T(ft) x R(inches)] x 3.7854: 72.72 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 4.64 ft.

Field calculated -- 1 casing vol.*: 72.72 liters

Field calculated -- 3 casing vol.*: 218.16 liters

FIELD PARAMETERS

	Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
	Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
3	0920	.90	.01	.3 l/min	18.37	41.2	6.96	850	-185	2.16	N	5.02	
6	0923	1.80	.02	.3 l/min	18.29	40.8	6.97	271	-179	1.47	N	5.34	
9	0926	2.70	.04	.3 l/min	18.26	40.3	6.93	168	-173	1.20	N	5.54	
12	0929	3.60	.05	.3 l/min	18.23	40.2	6.92	126	-170	1.09	N	5.74	
15	0932	4.50	.06	.3 l/min	18.21	39.9	6.92	118	-168	1.03	N	5.95	
18	0935	5.40	.07	.3 l/min	18.09	39.4	6.94	122.0	-158	1.01	N	6.20	
Previous Log readings													

Sample Date: 5.2.06 **Start Time:** 0940 **End Time:** 0950 **Equipment Blank Collected:** ____ **Trip Blank Collected:** TB3-A5252

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.85 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-07-A5198	NS	X					X																		

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments ____ **5 Bottles** Sampler: C. Sim J. Mot

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5-2-06

Well Number: **P181-MW45**

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 70 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring:	Meter ID#	Results
	PID:	0
	LEL:	0
	02:	0

Measured Well Depth: 17.8 ft.
Depth to Water (DTW): 4.12 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 13.68 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 33.82 liters (0.653)
Casing Radius (R): 2 inch
Verified Depth to Water: 4.12 ft.
Field calculated -- 1 casing vol.*: 33.82 liters
Field calculated -- 3 casing vol.*: 101.46 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
13:15			.4	19.28	58.7	6.73	0.1	-138	4.30	N	4.22	
13:18	1.2	0.04	.4	18.30	58.8	6.64	0.0	-125	2.60	N	4.51	
13:21	2.4	0.07	.4	18.12	58.6	6.62	205.0	-129	1.92	N	4.71	
13:24	3.6	0.11	.4	18.04	58.1	6.61	262.0	-130	1.13	N	4.90	
13:27	4.8	0.14	.4	18.03	57.6	6.62	263.0	-131	0.77	N	4.91	
13:30	6.0	0.18	.4	18.01	57.3	6.62	268.0	-132	0.47	N	4.95	
13:33	7.2	0.21	.4	18.00	56.9	6.62	266.0	-134	0.29	N	4.96	Stabilized
							RC					
Previous Log readings												

Sample Date: 5-2-06 **Start Time:** 13:37 **End Time:** 13:55 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5251

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min 1/day/team when portable pump (or other non disposable reusable equipment) is used Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.96 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
P181-MW45-A5202 NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 5-2-

12 Bottles

Sampler: R. Chmelik

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.2.06

Well Number: **P181-MW46**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 70 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

Personal Air Monitoring	Meter ID#	Results
	PID:	0.2
	LEL:	0
	02:	0

Measured Well Depth: 19.0 ft.
Depth to Water (DTW): 4.74 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 14.26 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 35.25 liters (0.653)
Casing Radius (R): 2 inch
Verified Depth to Water: 4.74 ft.
Field calculated -- 1 casing vol.*: 35.25 liters
Field calculated -- 3 casing vol.*: 105.75 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
14:14			.4	20.02	22.6	6.46	0.1	-152	6.48	Y	~~4.65~~	
14:17	1.2	0.03	.4	19.32	21.8	6.42	0.3	-169	3.02	Y	4.66	
14:20	2.4	0.07	.4	19.14	21.7	6.40	630.0	-186	1.64	Y	4.68	
14:23	3.6	0.10	.4	19.07	22.1	6.40	0.1	-197	0.97	Y	4.71	
14:26	4.8	0.14	.4	19.02	21.7	6.40	80.8	-206	0.50	Y	4.68	
14:29	6.0	0.17	.4	18.99	21.8	6.40	646.0	-212	0.27	Y	4.68	
14:32	7.2	0.20	.4	18.95	22.2	6.39	0.3	-217	0.08		4.67	Stabelized
						RC						
Previous Log readings												

Sample Date: 5.2.06 **Start Time:** 14:35 **End Time:** 14:50 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB-A5251

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min (1/day/team when portable pump (or other non disposable reusable equipment) is used)

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.67 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
P181-MW46-A5203	NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Bc, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 9.6

12 Bottles

Sampler: R.C. Apple

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5-2-06

Well Number: S-35R-2

Weather: ~~Sunny~~ Cloudy, Rain, Windy, Hot Temperature: 62 Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 8.75 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.92 ft.
Field calculated -- 1 casing vol.*: 8.75 liters
Field calculated -- 3 casing vol.*: 26.25 liters

Personal Air Monitoring	Meter ID#	Results
PID:	104552	0.0
LEL:	423013	0.0
02:	[illegible]	20.7

Measured Well Depth: 19.11 ft.
Depth to Water (DTW): 4.92 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 14.19 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-0C)	(mS/cm) (+/- 3%)	(7.0 +/- 0.1%)	(NTU) (5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1344	0.0	0.0	300 mL/m	18.5	14.7	6.85	246.0	-175	4.22	N	4.98	
1347	.9	.10		17.7	12.2	6.48	142.0	-188	1.62	N	4.97	
1350	1.8	.20		17.4	8.56	6.47	131.0	-195	1.03	N	4.96	
1353	2.7	.30		17.2	7.80	6.47	124.0	-204	.66	N	4.96	
1356	3.6	.41		17.2	7.81	6.48	97.2	-213	.55	N	4.96	
1359	4.5	.51		17.2	7.80	6.50	-10.0	-219	.48	N	4.98	
Previous Log readings												

Sample Date: 5-2-06 **Start Time:** 1400 **End Time:** 1420 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB1 A5250

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.92 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
S-35R-2-A5207	NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe : 5.0 samples clear

12 Bottles

Sampler: Shawn Baker

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB-A5250
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 1

DATE (YYYYMMDD) 2006, 05 (~~07~~), 2 JD

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5251
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 2

DATE (YYYMMDD) 2006,05,02

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5252
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 3

DATE (YYYMMDD) 2006,05,02 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☒ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature:

Innovative Technical Solutions, Inc.

TAILGATE SAFETY MEETING

Date: 5/3/06 Time: 0630 Page: 1 of 1
Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11
Work Description:

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357
Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue
Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A
Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness
Minimum PPE Required: Level D
Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling
Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Kimberly Tan	Kimberly	ITSI			
R. Chaffee	R. Chaffee	ITSI			
Anthony Sposito		MACTEC			
Chad Simpson		Mactec			
Dennis Hill		ITSI			
Brent Norman		ITSI			
Brian See		ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERALD ELLISON (Name printed) (Signature)
Site Superintendent: JD LENZEN (Name printed) (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 5/3/06
REPORT NO 215

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? . YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 6,8, 25, 27 and 28
	The final seven wells were sampled at Site 6, 100% complete
	Two wells were sampled at Site 8, the remaining five to sampled 5/4
	Five wells were sampled at Site 25, 98% complete
	Four wells were sampled at Site 27, 100% complete
	Four wells were sampled at Site 28, 100% complete
	There were no groundwater resample wells
	Seven soil gas wells were sampled at Site 1, three probes flooded and not sampled; Site 1 soil gas 100% complete
	Six soil gas wells were sampled at Site 2, two probes flooded and not sampled; Site 2 soil gas 46% complete

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	None

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description
	None

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Flooded soil gas wells not sampled include MG1-01-D, MG1-03-D, MG2-03-D & MG2-04-D

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

Gerard Kelli 5/3/06

AUTHORIZED QC MANAGER AT SITE DATE

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	5/31/06
FIELD ACTIVITY DAILY LOG	Report	215
Project Name: Alameda Basewide Groundwater Monitoring	Project No	02-125.11
Activity Subject: Sampling of Basewide Program Monitoring Wells		

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	10	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	10
Brian Dee	Field Tech	10	Chad Simpson	Field Tech	10
Dennis Hill	Field Tech	10			
Robyn Chapple	Field Tech	10			
Kimberly Tom	Field Tech	10			
Brett Womack	Field Tech	10			

Total Work Hours On Job Site This Date inc. Cont. Sheet	90
Cumulative Total of Work Hours From Previous Report	1122
Total Work Hours On Job Site From Start Of Construction	1212

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
ord Aerostar	4/10/2006				
ord F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 6, 8, 25, 27, and 28
Twenty-three total groundwater wells were sampled and shipped to the lab for analysis
Soil Gas sampling at IR Sites 1 and 2
Thirteen total soil gas probes were sampled and held onsite for courrier p/u 5/4

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS:

Clear, sunny with afternoon breeze

SIGNATURE: Gerard A. Hall DATE: 5/3/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5.3.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Well Sampling at sites 27 and 6			
Subcontractors/Visitors:			
Weather: Sunny			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00-07:00 - Tailgate Safety Mtg, calibrating and loading of equipment.
07:10-07:40 - Purged and sampled well #15MW3
07:45-08:40 - Purged and sampled well #15MW2 & FD.
08:55-09:15 - Pit stop at trailer.
09:20-10:10 - Purged and sampled well #~~27~~ 27-MW6.
10:15-11:15 - Purged and sampled well #15-MW1.
Note: Truck parked extremely near this well.
11:30-12:30 - Unloaded truck, lunch, reloaded truck
12:45-14:05 - Purged and sampled well #MW06-06.
14:15-14:45 - Purged and sampled well # 13 MW-03.
15:00 - Unload truck.

RC

Prepared by:	R. Chapple	Signature:	R. Chapple	Date:	5/3/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5/3/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: GW Sampling			
Subcontractors/Visitors: ITSI			
Weather: Partly Cloudy 55-62°F			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 @ ITSI Trailer
0615 H&S Briefing. Collected coolers at sampling locations
0630 Calibrated YSI at PDA # 104592 LEL# 0423014
0640 @ S-16-R DTW = 8.10 TD = 19.12 Sample # S-16-AS206 @ 0700
0750 @ P181-MW47 DTW = 6.82 TD = 18.50 Sample # P181-MW47-AS201 @ 0825
0900 @ 285W04 DTW = 5.74' TD = 14.95 Sample # 285W04-AS216 @ 0930
1010 @ 285W01 DTW = 4.52 TD = 15.70 Sample # 285W01-AS213 @ 1035
1105 @ 285W02 DTW = 7.44 TD = 15.90 Sample # 285W02-AS214 @ 1150
1200 @ 285W03 DTW = 8.52 TD = 15.95 Sample # 285W03-AS215 @ 1225
1300 @ MW8-05 DTW = 2.76 TD = 13.75 Sample # MW8-05-AS161 @ 1325
135 @ MW8-06 DTW = 3.23 TD = 13.30 Sample # MW8-06-AS162 @ 1420

Prepared by:	C. Simpson	Signature:		Date:	5/3/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5/03/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213		Project No.: 02 125.11
Work Description: well samples			
Subcontractors/Visitors:			
Weather: cool / windy overcast			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600: arrived on site, loaded equipment
- Calibrated field instruments
0630: tailgate safety meeting
0709: Set up and started purge on M25-08
0725: collected sample M25-08-A5199
0735: collected field duplicate M25-08-A5200
0815: Set up and started purge on M25-09
0835: Collected sample M25-09-A5201
0904: Set up and started purge on PW-12
0945: collected sample M25-07-A5208
1028: Set up and started purge on M06-07
1050: collected sample M06-07-A5151
1206: Started purge on M06-05
1225: Collected sample M06-05-A5148
1253: started purge on M06-02
1315: Collected sample M06-02-A5146
1334: started purge on M06-03
1400: Collected sample M06-03-A5147
1430: Started purge on M06-03-A5145
1450: collected sample M06-03-A5145
1530: delivered samples to the field office
- packed samples for delivery

Prepared by:	BT	Signature:		Date:	5/03/06

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4629**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
13-MW-03-A5144	5.3.06	14:40																						X			
											RC																

SAMPLED BY: R CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5-3-06 15:00 (Date and Time)

RECEIVED BY: Tony Royce (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4630**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M06-01-A5145	5/03/06	1450																						X			

SAMPLED BY: Brian Dee
SIGNATURE: Brian Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) Brian Dee (Signature)
ETSI (Company) 5/03/06 (Date and Time)

RECEIVED BY: Tony Bijas (Printed Name) Tony Bijas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4631**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M06-02-A5146	5/03/06	1315																						X			

SAMPLED BY: B. See
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian See (Printed Name) — (Signature)
ITSI (Company) — 5/03/06 (Date amd Time)

RECEIVED BY: Tony Rojas (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date amd Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4632**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M06-03-A5147	5/03/06	1400				X					X			X	X	X								X			

SAMPLED BY: B. See
SIGNATURE: Brian See

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian See (Printed Name) — Brian See (Signature)
ITSI (Company) — 5/03/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4633**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M06-05-A5148	5/03/06	1225				X					X			X	X	X								X			

SAMPLED BY: B. See
SIGNATURE: Brian See

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian See (Printed Name) — Brian See (Signature)
ITSE (Company) — 5/03/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) — Tony Rojas (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4634**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M06-06-A5149	5.3.06	13:25				X					X			X	X	X								X			
M06-06-A5150	5.3.06	13:40				X					X			X	X	X								X			
											RC																

SAMPLED BY: R. CHAPPLE
SIGNATURE: R. Chapple
SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.3.06 15:00 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4635**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-g as gasoline	TPH-c as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ ZnAc	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M06-07-A5151	5/03/06	1050					X							X	X	X								X			

SAMPLED BY: B. Dee
SIGNATURE: Brian Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) — Brian Dee (Signature)
ITST (Company) — 5/03/06 (Date and Time)

RECEIVED BY: AARON GRENIER (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4644**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M08-05-A5161*	5/3/06	1325				X			X		X			X	X	X								X			

SAMPLED BY: C. Simpson / A. Pruitt
SIGNATURE: [signature]

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson [signature]
Printed Name Signature
ETS
Company
5/3/06 / 1530
Date and Time

RECEIVED BY: Tony Rojas [signature]
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
Company
Date and Time

RECEIVED BY: _____
Printed Name Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4645**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M08-06-A5162*	5/3/06	1420				X			X		X			X	X	X								X			

SAMPLED BY: C. Simpson / A. Dalet
SIGNATURE:

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)
Please pull water from Ambers and filter for Diss Metals -GE

RELINQUISHED BY: Chad Simpson — Printed Name; Signature
ITSI — Company
5.3.06/1530 — Date and Time

RECEIVED BY: Tony Rojas — Printed Name; Signature

RELINQUISHED BY: _____ — Printed Name; Signature
_____ — Company; Date and Time

RECEIVED BY: _____ — Printed Name; Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4680**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M25-08-A5199	5/03/06	0725						X																			
M25-08-A5200	5/03/06	0735						X																			

SAMPLED BY: J. Dee
SIGNATURE: Brian Dee
RELINQUISHED BY: Brian Dee — Printed Name — Signature
ITSI — Company
5/03/06 — Date amd Time
RECEIVED BY: AARON GRENIER — Printed Name — Signature

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: _____ — Printed Name — Signature
_____ — Company — Date amd Time
RECEIVED BY: _____ — Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4681**
Page: _____ of _____

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M25-09-A5201	5/3/05	0835						X			X			X	X	X											

SAMPLED BY: B. Dee
SIGNATURE: Brian F. Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee — Brian Dee
Printed Name — Signature

ITSI — 5/03/06
Company — Date and Time

RECEIVED BY: AARON GARNIER — Aaron Garnier
Printed Name — Signature

RELINQUISHED BY: _____ — _____
Printed Name — Signature

Company — Date and Time

RECEIVED BY: _____ — _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4684**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn Ac	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
P181-MW47-A5204	5/3/06	0825						X			X			X	X	X											

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson CHS
Printed Name Signature
ITSI 5.3.06
Company Date and Time

RECEIVED BY: AARON GRENIER
Printed Name Signature

RELINQUISHED BY: _____
Printed Name Signature
_____
Company Date and Time

RECEIVED BY: _____
Printed Name Signature

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2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4685**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
PW12-A5205	5/03/06	0975						X			X			X	X	X											

SAMPLED BY: B. Lee
SIGNATURE: Brian Lee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Lee (Printed Name) — Brian Lee (Signature)
ITSI (Company) — 3/03/06 (Date and Time)

RECEIVED BY: AARON GRENIER (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4686**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
S-16-R-A5206	5/3/06	0700						X			X			X	X	X											

SAMPLED BY: C. Simpson / A. Dolet
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CWS (Signature)
ITSI (Company) 5/3/06 (Date and Time)
RECEIVED BY: AARON GAENIER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4688
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
15-MW1-A5208*	5.3.06	10:45									X			X	X	X											
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.3.06 11:30 (Date and Time)
RECEIVED BY: AARON GROWER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4689**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
15-MW2-A5209*	5·3·06	8:05									X			X	X	X											
15-MW2-A5210*	5·3·06	8:15									X			X	X	X											
													RC														

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.8.06 (Date amd Time) 11:30

RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date amd Time)

RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4690**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Stronium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
IS-MW3-A5211*	5.3.06	7:20									X			X	X	X											
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.3.06 11:30 (Date and Time)
RECEIVED BY: Jen Chen (Printed Name) Aaron Gronber (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4691**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
27MW06-A5212*	5.3.06	9:50									X			X	X	X											
												RC															

SAMPLED BY: R CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.3.06 11:30 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4692**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
28SW01-A5213	5/3/06	1035									X	X														X	

SAMPLED BY: C. Simpson / A. Nolf
SIGNATURE: CS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson — CS
Printed Name — Signature
ITSI — 5-3-06
Company — Date amd Time

RECEIVED BY: Tony Rojas — Tony Rojas
Printed Name — Signature

RELINQUISHED BY: _____
Printed Name — Signature
Company — Date amd Time

RECEIVED BY: _____
Printed Name — Signature

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4693**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
28SW02-A5214	5/3/06	1150									X	X														X	

SAMPLED BY: C. Simpson / A. Bolt
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CWS (Signature)
ITSI (Company) 5/3/06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4694**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Trium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
28SW03-A5215	5/3/06	1225									X	X														X	

SAMPLED BY: C. Simpson / A. Diolot
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CHS (Signature)
ITSI (Company) 5:3:06 (Date and Time)
RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4695**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	2	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
28SW04-A5216	5/3/06	0930									X	X														X	MS/MSD

SAMPLED BY: C Simpson / A. Doiet
SIGNATURE: CWS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CWS (Signature)
ITST (Company) 5.3.06 (Date and Time)

RECEIVED BY: Tony Rojas (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4738**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
-14 TB1-~~A5199~~ A6253	5/03/06	0700	X																								
-15 M25-08-A5199	5/03/06	0725	X																								
-16 M25-08-A5200	5/03/06	0735	X																								
-17 M25-09-A5201	5/03/06	0835	X	X																							
-18 PW12-A5205	5/03/06	0945	X	X																							
-19 M06-07-A5151	5/03/06	~~1010~~ 1050	X	X																							
-5 M06-05-A5148	5/03/06	1225	X	X	X																						
-3 M06-02-A5146	5/03/06	1315	X																								
-4 M06-03-A5147	5/03/06	1400	X	X	X																						
-2 M06-01-A5145	5/03/06	1450	X																								

SAMPLED BY: B. Dee
SIGNATURE: Brian Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) Brian Dee (Signature)
ITSI (Company) 5/03/06 (Date amd Time)

RECEIVED BY: P. PATRICKA (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date amd Time)

RECEIVED BY: (Printed Name) (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4739**
Page: 1 of 1

ANALYSIS

	FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
	Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
	Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
	Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
20	TB2-~~A5260~~ A5254	5.3.06	7:00	X																								
21	15-MW3-A5211	5.3.06	7:20	X	X	X																						
22	15 MW2-A5209	5.3.06	8:05	X	X	X																						
23	15-MW2-A5210	5.3.06	8.15	X	X	X																						
24	27MW06-A5212	5.3.06	9:50	X	X	X																						
25	ESHW1-A5208	5.3.06	10:45	X	X	X																						
6	MW6-06-A5149	5.3.06	13:25	X	X	X																						
7	MW6-06-A5150	5.3.06	13:40	X	X	X																						
									RC																			
	13MW-03-A5144	5.3.06	14:40	X																								

SAMPLED BY: R CHAPPLE
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. CHAPPLE (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.3.06 15:00 (Date and Time)

RECEIVED BY: P. Petricka (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

ITSI Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4740**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~12 c~~ Cupres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
-26 TB3-~~A5260~~ A5265	5/3/06	0700	X																								
-27★ S-16-~~A5266~~	5/3/06	0700	X	X																						S-16-R-A5	
-28★ P181-MW47-A5264	5/3/06	0825	X	X																							
-13 285W04-A5216	5/3/06	0930	X																								MS/MSD
-10 285W01-A5213	5/3/06	1035	X																								
-11 285W02-A5214	5/3/06	1150	X																								
-12 285W03-A5215	5/3/06	1225	X																								
-8 MW3-05-A5261	5/3/06	1325	X	X	X																						
-9 MW3-06-A5262	5/3/06	1420	X	X	X																						

SAMPLED BY: C. Simpson / A. Orolet
SIGNATURE: CWS
SPECIAL INSTRUCTIONS/COMMENTS: ★ No HCl Preservative ★

RELINQUISHED BY: Chad Simpson (Printed Name) CWS (Signature)
ITSI (Company) 5/3/06 (Date and Time)

RECEIVED BY: P. Patrick A (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

IR Site 6

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.3.06

Well Number: 13-MW-03

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 100 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

0653

Personal Air Monitoring	Meter ID#	Results
	PID:	0
	LEL:	0
	02:	0

Measured Well Depth: 18.50 ft.
Depth to Water (DTW): 2.80 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 15.7 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 38.81 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 2.80 ft.
Field calculated -- 1 casing vol.*: 38.81 liters
Field calculated -- 3 casing vol.*: 116.43 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
14:23			.4	19.16	0.396	7.28	173.0	-82	3.18	N	3.07	
14:26	1.2	0.03	.4	18.90	0.393	7.14	115.0	-93	1.35	N	3.17	
14:29	2.4	0.06	.4	18.82	0.391	7.11	105.9	-99	0.81	N	3.22	
14:32	3.6	0.09	.4	18.72	0.391	7.11	80.1	-105	0.61	N	3.23	
14:35	4.8	0.12	.4	18.72	0.391	7.11	85.1	-108	0.46	N	3.25	Stabilized
						RC						
Previous Log readings												

Sample Date: 5.3.06 **Start Time:** 14:40 **End Time:** 14:45 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5260

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.25 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
13-MW-03-A5144 NS	X																					X		

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

4 Bottles

Sampler: R. Chapple

IR Site 6

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/03/06

Well Number: **M06-01**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 70 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	101852	0.0
LEL:	〃	0.0
02:	〃	20.9

Measured Well Depth: 9.32 ft.

Depth to Water (DTW): 3.18 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 6.14 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 3.71 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 3.18 ft.

Field calculated -- 1 casing vol.*: 3.71 liters

Field calculated -- 3 casing vol.*: 11.1 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1430	0-3	.02	0.3	19.0	1.52	7.65	15.0	-211	2.89	N	3.58	
1433	0-6	.05	↓	18.4	1.25	7.52	23.3	-202	1.73	N	3.67	
1436	0.9	.08		18.5	1.08	7.36	29.1	-189	1.55	N	3.65	
1439	1.2	.10		18.5	1.06	7.33	19.7	-195	1.38	N	3.69	
1442	1.5	.12		18.5	1.06	7.27	16.9	-193	1.18	N	3.69	
1445	1.8	.15		18.4	1.05	7.26	14.1	-193	1.11	N	3.69	
1448	2.1	.18	↓	18.3	1.05	7.25	17.	-192	1.02	N	3.69	
Previous Log readings												

Sample Date: 5/03/06 **Start Time:** 1450 **End Time:** 1510 **Equipment Blank Collected:** N **Trip Blank Collected:**

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.69 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M06-01-A5145	NS	X																					X		

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 4 Bottles Sampler:

IR Site 6

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/03/06

Well Number: **M06-02**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 70 °F **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring:	PID: 101852	0.0
	LEL: " "	0.0
	02: " "	20.9

Measured Well Depth: 9.60 ft.
Depth to Water (DTW): 3.70 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 5.90 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: _____ liters
Casing Radius (R): 1.0 inch
Verified Depth to Water: 3.70 ft.
Field calculated -- 1 casing vol.*: 3.513 liters
Field calculated -- 3 casing vol.*: 10.72 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1253	0.3	0.084 ~~0.054~~	0.3	18.5	1.71	7.94	7.0	125	6.35	N	4.03	
1256	0.6	0.168		18.2	0.90	7.45	5.1	-77	5.64	N	4.06	
1259	0.9	0.252		18.9	0.74	7.51	10.8	-75	5.63	N	4.06	
1302	1.2	0.336		18.4	0.97	7.45	4.5	-74	5.22	N	4.09	
1305	1.5	0.420		18.4	0.97	7.42	3.8	-76	5.00	N	4.10	
1308	1.8	0.504	↓	18.4	0.99	7.42	0.0	-78	4.77	N	4.10	
Previous Log readings												

Sample Date: 5/03/06 **Start Time:** 1315 **End Time:** 1330 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1-A5259

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 9.10 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M06-02-A5146	NS	X																					X		

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 4 Bottles Sampler: KD/KT

IR Site 6

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M06-03**

Purge Date: 5/03/06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 60 **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104852	0.0
LEL:	" "	0.0
02:	" "	20.9

Measured Well Depth: ~~4.59~~ 10.00 ft.

Depth to Water (DTW): 4.59 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 5.41 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: _____ liters

Casing Radius (R): 2 inch

Verified Depth to Water: 4.59 ft.

Field calculated -- 1 casing vol.*: 3.277 liters

Field calculated -- 3 casing vol.*: 9.83 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
1334	0.3	0.092	0.3	19.1	7.78	7.35	35.2	-194	4.52	N	5.05	
1337	0.6	0.183		18.7	6.76	7.34	32.1	-196	2.38	N	5.02	
1341	0.9	0.275		18.5	6.23	7.33	22.0	-187	1.70	N	4.98	
1344	1.2	0.366		18.5	5.72	7.32	41.9	-181	1.51	N	4.98	
1347	1.5	0.458		18.7	5.53	7.30	10.5	-177	1.32	N	4.98	
1350	1.8	0.549		18.7	5.57	7.30	6.6	-170	1.17	N	4.98	
1353	2.1	0.641		18.6	5.57	7.30	5.1	-168	1.09	N	4.98	
1356	2.4	0.732		18.8	5.65	7.30	0.2	-167	1.01	N	4.98	
Previous Log readings												

Sample Date: 5/03/06 **Start Time:** 1400 **End Time:** 1415 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1-A5259

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.98 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M06-03-A5147 NS	X	X	X	X					X			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 0.0

15 Bottles

Sampler: SD/

IR Site 6

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **M06-05**

Purge Date: 5/03/06

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: ____ Sample Team: ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104852	0.0
LEL:	" "	0.0
02:	" "	20.9

Measured Well Depth: 9.80 ft.
Depth to Water (DTW): 4.00 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 5.8 ft.

One Casing Volume=[0.163 x T(ft) x R(inches)] x 3.7854: ____ liters
Casing Radius (R): 1.0 inch
Verified Depth to Water: 4.00 ft.
Field calculated -- 1 casing vol.*: 3.51 liters
Field calculated -- 3 casing vol.*: 10.53 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1206	0.3	0.085	0.3	17.6	4.88	7.33	9.8	-214	3.86	N	4.35	
1209	0.6	0.171		17.4	4.67	7.46	4.5	-218	2.46	N	4.31	
1212	0.9	0.256		17.2	4.58	7.55	1.4	-221	1.77	N	4.32	
1215	1.2	0.342		17.1	4.56	7.56	3.6	-224	1.48	N	4.32	
1218	1.5	0.427		17.1	4.52	7.57	3.0	-224	1.38	N	4.32	
1221	1.8	0.513		17.1	4.50	7.59	4.5	-224	1.29	N	4.32	
Previous Log readings												

Sample Date: 5/03/06 **Start Time:** 1225 **End Time:** 1240 **Equipment Blank Collected:** N **Trip Blank Collected:** TBI-A52589

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.32 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M06-05-A5148 NS	X	X	X	X					X			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Za)

Comments: For 0.5 ml/L

15 Bottles

Sampler: BD/KT

IR Site 6

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.3.06

Well Number: **M06-06**

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 12.65 ft.
Depth to Water (DTW): 3.31 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.34 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.76 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.31 ft.
Field calculated -- 1 casing vol.*: 5.76 liters
Field calculated -- 3 casing vol.*: 17.28 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
12:58			.4	17.34	0.341	7.29	0.2	55	3.68	N	3.48	
13:01	1.2	0.21	.4	17.19	0.267	6.98	0.2	82	3.84	N	3.49	
13:04	2.4	0.42	.4	17.31	0.277	6.92	0.1	87	3.39	N	3.51	
13:07	3.6	0.63	.4	17.39	0.292	6.93	0.1	81	2.66	N	3.51	
13:10	4.8	0.83	.4	17.46	0.316	6.97	0.1	69	2.30	N	3.52	
13:13	6.0	1.04	.4	17.45	0.330	7.02	0.1	61	2.08	N	3.52	
13:16	7.2	1.25	.4	17.44	0.384	7.08	0.1	48	1.85	N	3.52	
13:19	8.4	1.46	.4	17.45	0.385	7.14	0.1	43	1.80	N	3.52	
13:22	9.6	1.67	.4	17.45	0.394	7.20	0.1	39	1.77	N	3.52	Stabilized
							RC					
Previous Log readings												

Sample Date: 5.3.06 **Start Time:** 13:25 **End Time:** 14:00 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5260

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.52 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M06-06-A5149 NS	X	X	X	X					X			X	X	X								X	X	
M06-06-A5150 FD	X	X	X	X					X			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron Ø

30 Bottles

Sampler: R. Cripple

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 6 — **Event: Spring2006** — Purge Date: 5/03/06

Well Number: M06-07

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: ____ Sample Team: ☐ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	101852	0.0
LEL:	11 11	0.0
02:	11 11	20.9

Measured Well Depth: 14.30 ft.
Depth to Water (DTW): 3.05 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.25 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ____ liters
Casing Radius (R): 4 inch
Verified Depth to Water: 3.05 ft.
Field calculated -- 1 casing vol.*: 27.68 liters
Field calculated -- 3 casing vol.*: 110.72 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity	pH	Turbidity	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1028	0.3	0.088	0.3	19.6	0.860	7.38	11.7	-116	2.58	N	3.21	
1031	0.6	0.176		19.0	0.595	7.11	-2.3	-137	1.89	N	3.22	
1034	0.9	0.265		18.9	0.552	7.19	-2.1	-149	1.28	N	3.26	
1037	1.2	0.353		19.1	0.532	7.24	-9.9	-159	1.05	N	3.26	
1040	1.5	0.441		19.0	0.526	7.23	-2.1	-164	0.92	N	3.26	
Previous Log readings												

Sample Date: 5/03/06 **Start Time:** 1050 **End Time:** 1115

Equipment Blank Collected: N — 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB1-A5259 — Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 3.26 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M06-07-A5151	NS	X	X			X							X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: For 1.5 gal/l

11 Bottles

Sampler: RD/KT

IR Site 8

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/3/06

Well Number: **M08-05**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 63°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104342	0
LEL:	042304	0
02:	" "	0

Measured Well Depth: 13.75' ft.

Depth to Water (DTW): 2.76 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 10.99 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.78 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 2.76 ft.

Field calculated -- 1 casing vol.*: 6.78 liters

Field calculated -- 3 casing vol.*: 20.34 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1305	.90	.13	.3/min	19.16	0.614	8.45	113	-18	7.81	N	2.79	
1310	1.80	.27	.3/min	19.07	0.578	8.13	119	-17	5.10	N	2.83	
1311	2.70	.40	.3/min	19.09	0.577	7.97	112	-14	4.34	N	2.90	
1314	3.60	.53	.3/min	19.08	0.587	7.90	106	-13	3.97	N	2.90	
1317	4.50	.66	.3/min	19.11	0.588	7.88	95.5	-13	3.82	N	2.90	
1320	5.40	.80	.3/min	19.13	0.598	7.85	81.7	-15	3.63	N	2.90	
1323	6.30	.93	.3/min	19.13	0.593	7.85	62.6	-14	3.78	N	2.90	
Previous Log readings												

Sample Date: 5/3/06 **Start Time:** 1325 **End Time:** 1345 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB3-A5261

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.60 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M08-05-A5161	NS	X	X	X	X			X		X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 0

16 Bottles

Sampler: C. Sa[illegible]n/A. Dacat

IR Site 8

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/3/06

Well Number: M08-06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 62°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	0
LEL:	042014	0
02:	" "	0

Measured Well Depth: 13.30 ft.
Depth to Water (DTW): 3.23 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.07 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.21 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 3.23 ft.
Field calculated -- 1 casing vol.*: 6.21 liters
Field calculated -- 3 casing vol.*: 18.64 liters

★FIELD PARAMETERS★

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1355	.90	.14	.3/min	17.19	4.84	7.96	359	-65	8.48	N	3.26	
1358	1.80	.29	.3/min	17.08	0.327	7.92	282	-49	3.82	N	3.29	
1401	2.70	.43	.3/min	16.97	0.296	7.87	218	-34	3.64	N	3.33	
1404	3.60	.58	.3/min	16.97	0.293	7.87	178	-29	3.54	N	3.33	
1407	4.50	.72	.3/min	16.95	0.311	7.81	160	-37	3.28	N	3.33	
1410	5.40	.87	.3/min	16.95	0.324	7.79	106	-52	2.86	N	3.34	
1413	6.30	1.01	.3/min	16.95	0.323	7.78	112	-24	2.86	N	3.35	
1416	7.20	1.16	.3/min	16.93	0.320	7.79	99	-41	2.84	N	3.35	
Previous Log readings												

Sample Date: 5/3/06 **Start Time:** 1420 **End Time:** 1440 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TB-A5261

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.49 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M08-06-A5162 NS	X	X	X	X			X		X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: FIELD Temp = 62

16 Bottles

Sampler: [illegible]

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/3/06

Well Number: **P181-MW47**

Weather: (Sunny, Cloudy, Rain, Windy, Hot) Temperature: 60°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring: Meter ID# / Results — PID: 104582 / 3.6; LEL: 042314 / >100; O2: " / 0

Measured Well Depth: 18.50 ft.

Depth to Water (DTW): 6.82 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.68 ft.

One Casing Volume= [~~0.163~~ 0.1653 x T(ft) x R(inches)]² x 3.7854: 57 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 6.82 ft.

Field calculated -- 1 casing vol.*: 57 liters

Field calculated -- 3 casing vol.*: 171 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0758	.90	.02	.3/min	17.72	56.4	7.03	13.7	-211	2.13	Y	6.82	S
0801	1.80	.03	.3/min	17.71	55.3	6.91	7.2	-228	1.34	Y	6.82	T
0804	2.70	.05	.3/min	17.67	51.8	6.88	41.8	-249	1.49	Y	6.82	R
0807	3.60	.06	.3/min	17.61	51.1	6.86	46.5	-256	1.61	Y	6.82	O
0810	4.50	.08	.3/min	17.56	49.6	6.85	56.6	-260	1.85	Y	6.83	D N
0813	5.40	.09	.3/min	17.55	48.4	6.85	96.6	-259	2.03	Y	6.83	D G
0816	6.30	.11	.3/min	17.50	47.6	6.84	31.2	-259	2.28	Y	6.83	O
0819	7.20	.12	.3/min	17.47	47.0	6.84	54.3	-259	2.30	Y	6.84	R
0822	8.10	.13	.3/min	17.50	47.3	6.84	37.2	-259	2.26	Y	6.84	O
Previous Log readings												

Sample Date: 5/3/06 **Start Time:** 0825 **End Time:** 0935

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB-A5261 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 7.16 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
P181-MW47-A5204 NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 9.0 mg/L

12 Bottles

Sampler: C. Sing

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/03/06

Well Number: **M25-08**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 75°F **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104852	0.0
LEL:	"	0.0
02:	"	21.0

Measured Well Depth: 19.90 ft.
Depth to Water (DTW): 2.85 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 17.05 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: _____ liters
Casing Radius (R): 2 inch
Verified Depth to Water: 2.85 ft.
Field calculated -- 1 casing vol.*: 41.95 liters
Field calculated -- 3 casing vol.*: 125.86 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0709	0.3	0.002	0.3	18.5	61.6	6.54	18.2	-227	0.91	N	3.07	
0712	0.6	0.014	↓	18.8	61.6	6.62	12.8	-231	0.61	N	3.13	
0715	0.9	0.021		18.9	61.5	6.65	31.2	-239	0.48	N	3.18	
0718	1.2	0.029		19.0	61.7	6.65	25.3	-240	0.46	N	3.18	
0721	1.5	0.036	↓	19.0	61.5	6.66	31.5	-243	0.43	N	3.18	
Previous Log readings												

Sample Date: 5-3-06 **Start Time:** 0725 **End Time:** 0800 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1-A5259

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 3.18 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-08-A5199	NS	X					X																		
M25-08-A5200	FD	X					X																		

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

10 Bottles

Sampler: KT/KD

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/03/06

Well Number: **M25-09**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** ____ **Sample Team:** [X] Team 1 [ ] Team 2 [ ] Team 3

Personal Air Monitoring:	Meter ID#	Results
PID:	104852	0.0
LEL:	" "	0.0
02:	" "	20.9

Measured Well Depth: 19.60 ft.
Depth to Water (DTW): 5.85 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 13.81 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ____ liters
Casing Radius (R): 4"ø 2 inch
Verified Depth to Water: 6.06 ft.
Field calculated -- 1 casing vol.*: 33.98 liters
Field calculated -- 3 casing vol.*: 101.94 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/-3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0815	6.3	0.089 ~~30~~	0.3	18.5	11.5	6.62	25.0	-202	2.40	N	6.08	
0818	0.6	0.018		18.5	7.52	6.38	17.7	-195	1.57	N	6.25	
0821	0.9	0.026		18.5	5.85	6.24	8.4	-192	1.19	N	6.45	
0824	1.2	0.035		18.6	5.18	6.18	1.7	-190	0.95	N	6.65	
0827	1.5	0.044		18.7	4.85	6.16	2.5	-189	0.80	N	6.80	
0830	1.8	0.053		18.7	4.73	6.15	3.7	-188	0.73	N	7.10	
Previous Log readings												

Sample Date: 5/03/06 **Start Time:** 0835 **End Time:** 0850 **Equipment Blank Collected:** N **Trip Blank Collected:** TB-A5259

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.10 **MS/MSD** [ ]

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M25-09-A5201	NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Fe= 6.0 mg/l

12 Bottles

Sampler: BPL

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **PW-12**

Purge Date: 5/03/06

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** ____ **Sample Team:** ☐ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104652	6.0
LEL:	" "	0.0
02:	" "	20.9

Measured Well Depth: 25.80 ft.

Depth to Water (DTW): 9.25 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 16.55 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: ____ liters

Casing Radius (R): 4" inch

Verified Depth to Water: 9.25 ft.

Field calculated -- 1 casing vol.*: 40.72 liters

Field calculated -- 3 casing vol.*: 122.16 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
09.04	0.3	0.0074	300	17.8	1.86	6.32	52.3	-55	2.94	N	9.70	
0907	0.6	0.0147		17.8	1.90	6.43	8.7	-38	1.81	N	9.85	
0910	0.9	0.022		17.8	1.91	6.47	17.4	-28	1.11	N	10.0	
0913	1.2	0.029		17.8	1.92	6.49	17.0	-24	0.77	N	10.1	
0916	1.5	0.037	↓	17.8	2.95	6.43	8.4	-51	0.79	N	10.1	
0919	1.8	0.042	~	17.9	3.78	6.40	-1.0	-88	0.60	N	10.5	
0925	2.1	0.052		18.2	8.55	6.36	5.2	-123	0.42	N	10.18	
0928	2.4	0.057		18.3	12.30	6.39	4.5	-133	0.43	N	10.18	
0931	2.7	0.066		18.3	13.80	6.40	7.7	-136	0.41	N	10.18	
0934	3.0	0.074		18.3	14.20	6.40	0.6	-138	0.40	N	10.18	
Previous Log readings 0937	3.3	0.081	V DO	18.3	15.10	6.41	0.8	-143	0.37	N	10.18	

Sample Date: 5/3/06 **Start Time:** ~~0900~~ 0945 **End Time:** 1000 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1-A5259

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 10.18 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
~~PW-12-A5205~~ PW12-A5205 NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 2.2 mg/l

12 Bottles

Sampler: KDK

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.3.06

Well Number: S-16-R

Weather: Sunny, (Cloudy), Rain, (Windy), Hot Temperature: 55°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
	PID: 104582	0.6
	LEL: 04230114	>4000 100
	02: " "	0

Measured Well Depth: 19.12 ft.

Depth to Water (DTW): 8.10 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.02 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 6.8 liters

Casing Radius (R): 1 inch

Verified Depth to Water: 8.10 ft.

Field calculated -- 1 casing vol.*: 6.6 liters

Field calculated -- 3 casing vol.*: 20.40 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0644	.90	.13	.3/min	17.65	59.9	6.44	456	-222	3.13	Y	8.56	S
0647	1.80	.26	.3/min	17.56	60.2	6.65	298	-218	2.60	Y	9.21	T
0650	2.70	.40	.3/min	17.48	58.6	6.74	428	-215	2.52	Y	10.34	R
0653	3.60	.53	.3/min	17.41	59.7	6.79	297	-209	2.65	Y	10.60	O
0656	4.50	.66	.3/min	17.41	59.5	6.78	213	-216	2.60	Y	10.86	O N
												D S
												O
												R
												1
												0
Previous Log readings												

Sample Date: 5.3.06 **Start Time:** 0700 **End Time:** 0720 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB3-A5206

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 11.51 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
S-16-R-A5206 NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron = 5.6 mg/L

12 Bottles

Sampler: C. Sing / A. Malouf

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 27 — **Event: Spring2006** — Purge Date: 5-3-06

Well Number: **15-MW1**

Weather: (Sunny), Cloudy, Rain, Windy, Hot — **Temperature:** 65 — **Sample Team:** ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 18.63 ft.
Depth to Water (DTW): 8.38 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.25 ft.

0.653
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 25.34 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 8.38 ft.
Field calculated -- 1 casing vol.*: 25.34 liters
Field calculated -- 3 casing vol.*: 76.02 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
10:33			.4	18.03	40.0	7.11	0.1	76	8.00	N	8.49	
10:36	1.2	0.05	.4	17.76	40.2	7.13	0.1	72	5.06	N	8.51	
10:39	2.4	0.09	.4	17.61	40.4	7.10	0.1	72	4.57	N	8.52	
10:42	3.6	0.14	.4	17.56	40.5	7.10	0.1	72	4.39	N	8.53	Stabilized
							RC					
Previous Log readings												

Sample Date: 5.3.06 **Start Time:** 10:45 **End Time:** 11:05 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5260

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 8.53 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
15-MW1-A5208	NS	X	X	X						X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 0

12 Bottles

Sampler: R. Chapple

IR Site 27

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.3.06

Well Number: 15-MW2

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 18.2 ft.
Depth to Water (DTW): 7.15 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 11.05 ft.

0.367
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 15.35 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 7.15 ft.
Field calculated -- 1 casing vol.*: 15.35 liters
Field calculated -- 3 casing vol.*: 46.05 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/-3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
7:52			.4	18.15	16.5	6.95	0.1	57	4.35	N	7.38	
7:55	1.2	0.08	.4	18.27	17.5	6.77	0.0	63	3.74	N	7.44	
7:58	2.4	0.16	.4	18.30	17.5	6.76	0.1	66	3.55	N	7.50	
8:01 8:02	3.6	0.23	.4	18.20	17.1	6.77	0.1	68	3.45	N	7.55	Stabilized
						RC						
Previous Log readings												

Sample Date: 5.3.06 **Start Time:** 8:05 **End Time:** 8:30 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5260

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 7.55 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
15-MW2-A5209 NS	X	X	X						X*			X	X	X									X	
15-MW2-A5210* FD	X	X	X						X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 8

24 Bottles

Sampler: R. Clapple

IR Site 27

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **15-MW3**

Purge Date: 5.3.06

Weather: (Sunny), Cloudy, Rain, Windy, Hot **Temperature:** 55 **Sample Team:** ☐ Team 1 ☑ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 17.87 ft.

Depth to Water (DTW): 5.34 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 12.53 ft.

0.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 30.97 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 5.34 ft.

Field calculated -- 1 casing vol.*: 30.97 liters

Field calculated -- 3 casing vol.*: 92.91 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:05			.4	17.88	1.53	6.42	434.0	-63	1.62	N	5.40	Water is cloudy
7:08	1.2	0.04	.4	17.82	1.49	6.59	4130	-69	0.86	N	5.40	
7:11	2.4	0.08	.4	17.76	1.48	6.65	220.0	-76	0.61	N	5.40	
7:14	3.6	0.12	.4	17.70	1.48	6.69	140.0	-81	0.45	N	5.40	Stabelized
							RC					
Previous Log readings												

Sample Date: 5.3.06 **Start Time:** 7:20 **End Time:** 7:35 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5260

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.40 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
15-MW3-A5211 NS	X	X	X						X*			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron 9.6

12 Bottles

Sampler: R Chapple

IR Site 27

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5·3·06

Well Number: 27MW06

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 16.0 ft.
Depth to Water (DTW): 3.70 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 12.3 ft.

0.653
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 30.40 liters
Casing Radius (R): 2 inch
Verified Depth to Water: 3.70 ft.
Field calculated – 1 casing vol.*: 30.40 liters
Field calculated – 3 casing vol.*: 91.20 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
9:34			.4	17.26	0.589	7.50	0.1	49	4.02	N	3.90	
9:37	1.2	0.04	.4	17.19	0.512	7.46	0.0	60	3.61	N	3.97	
9:40	2.4	0.08	.4	17.15	0.496	7.47	0.1	66	3.37	N	4.00	
9:43	3.6	0.12	.4	17.16	0.491	7.49	0.1	66	3.28	N	4.02	Stabilized
						RC						
Previous Log readings												

Sample Date: 5·3·06 **Start Time:** 9:50 **End Time:** 10:05 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5260

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.02 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
27MW06-A5212	NS	X	X	X						X*			X	X	X										

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

11 Bottles

Sampler: R. Clapple

IR Site 28

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/3/06

Well Number: **28SW01**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 61°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☑ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104587	0
LEL:	042304	0
O2:		0

Measured Well Depth: 15.70 ft.

Depth to Water (DTW): 4.52 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 11.18 ft.

One Casing Volume=~~[0.163 x~~ T(ft) x R(inches)] x 3.7854: 55 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 4.52 ft.

Field calculated -- 1 casing vol.*: 55 liters

Field calculated -- 3 casing vol.*: 165 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1017	.90	.02	.3l/min	16.38	35.9	7.41	101	-10	3.83	N	4.57	
1020	1.60	.03	.3l/min	16.33	32.7	7.42	39.9	-6	3.06	N	4.59	
1023	2.70	.05	.3l/min	16.19	30.7	7.41	45.7	-3	2.83	N	4.63	
1026	3.60	.07	.3l/min	16.26	30.0	7.40	39.9	-2	2.71	N	4.65	
1029	4.50	.06	.3l/min	16.14	29.8	7.39	31.0	0	2.63	N	4.67	
1032	5.40	.09	.3l/min	16.22	28.6	7.39	61.0	1	2.67	N	4.69	
Previous Log readings												

Sample Date: 5/3/06 **Start Time:** 1035 **End Time:** 1045 **Equipment Blank Collected:** _____ **Trip Blank Collected:** TBS- A5261

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.26 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

WELL ID & SAMPLE TYPE	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Perrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
28SW01-A5213	NS	X								X	X														X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: 3 Bottles Sampler: C. Syson

IR Site 28

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/3/06

Well Number: 28SW02

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 62°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

Meter ID#		Results
Personal Air Monitoring: PID:	104582	4.0
LEL:	042304	0
O2:	" "	0

Measured Well Depth: 15.90 ft.

Depth to Water (DTW): 7.44 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 8.46 ft.

One Casing Volume=~~[0.163~~ x T(ft) x R(inches)] x 3.7854: 41.8 liters (x653)

Casing Radius (R): 2 inch

Verified Depth to Water: 7.44 ft.

Field calculated -- 1 casing vol.*: 41.8 liters

Field calculated -- 3 casing vol.*: 125.4 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1120	.90	.02	.3/min	16.83	44.2	7.51	88.9	-262	4.32	Y	7.63	
1123	1.80	.04	.3/min	16.95	30.3	7.58	98.7	-267	2.53	Y	7.94	
1126	2.70	.06	.3/min	16.90	25.2	7.64	173	-240	1.91	Y	8.06	
1129	3.60	.09	.3/min	16.85	23.3	7.66	60.2	-221	1.62	Y	8.17	
1132	4.50	.11	.3/min	16.78	22.8	7.66	41.0	-211	1.43	Y	8.30	
1135	5.40	.13	.3/min	16.77	23.0	7.66	38.7	-208	1.20	Y	8.41	
1138	6.30	.15	.3/min	16.76	23.2	7.66	45.2	-206	1.13	Y	8.53	
1141	7.20	.17	.3/min	16.72	23.6	7.66	50.5	-220	0.94	Y	8.60	
1144	8.10	.19	.3/min	16.72	23.6	7.66	42.1	-221	0.93	Y	8.67	
1147	9.00	.21	.3/min	16.71	23.5	7.66	43.6	-209	0.93	Y	8.74	
Previous Log readings												

Sample Date: 5/3/06 **Start Time:** 1150 **End Time:** 1155

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5261 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 9.17 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals*	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
28SW02-A5214 NS	X								X	X														X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments _____

3 Bottles

Sampler: C. Sim / A. Rolett

IR Site 28

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/3/06

Well Number: 28SW03

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 60°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104582	0
LEL:	042014	0
O2:		0

Measured Well Depth: ~~16.~~ 15.95' ft.

Depth to Water (DTW): 8.52' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 7.43 ft.

One Casing Volume= ~~[0.163~~ .657 x T(ft) x R(inches)] x 3.7854: 36.7 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 8.52' ft.

Field calculated -- 1 casing vol.*: 36.7 liters

Field calculated -- 3 casing vol.*: 110 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1208	.90	.02	.3/min	17.03	99.9	8.09	142	-167	3.74	N	8.54	
1211	1.80	.05	.3/min	16.97	23.1	8.19	134	-109	4.48	N	8.56	
1214	2.70	.07	.3/min	16.87	20.5	8.21	121	-82	4.60	N	8.58	
1217	3.60	.10	.3/min	16.90	19.9	8.21	92.8	-70	4.49	N	8.61	
1220	4.50	.13	.3/min	16.86	19.6	8.21	86.7	-62	4.40	N	8.63	
1223	5.4	.15	.3/min	16.86	19.5	8.21	62.4	-38	4.40	N	8.64	
Previous Log readings												

Sample Date: 5/3/06 **Start Time:** 1225 **End Time:** 1235

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3 - A5261 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 10.02 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
28SW03-A5215 NS	X								X	X														X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments:

3 Bottles

Sampler: C. Simpson / A. Pollock

IR Site 28

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Well Number: **28SW04**

Purge Date: 5/3/06

Weather: Sunny, (Cloudy), Rain, Windy, Hot **Temperature:** 57°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

Personal Air Monitoring	Meter ID#	Results
PID:	104582	35.4
LEL:	042306/14	>100
02:	" "	0

Measured Well Depth: 14.95 ft.

Depth to Water (DTW): 5.74' ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.21 ft.

One Casing Volume ~~[0.163~~ .1653 x T(ft) x R(inches)] x 3.7854: 45.5 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 5.74' ft.

Field calculated -- 1 casing vol.*: 45.5 liters

Field calculated -- 3 casing vol.*: 136.5 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
0905	.90	.02	.3/min	19.12	7.08	7.60	179	-151	5.62	Y	5.76	
0908	1.80	.04	.3/min	19.21	2.92	7.36	418	-164	1.47	Y	5.78	
0911	2.70	.06	.3/min	19.19	2.89	7.32	496	-166	1.09	Y	5.78	
0914	3.60	.08	.3/min	19.20	2.87	7.29	18.3	-167	0.93	Y	5.76	
0917	4.50	.10	.3/min	19.20	2.86	7.27	42.7	-167	0.81	Y	5.76	
0920	5.40	.12	.3/min	19.21	2.85	7.27	77.8	-167	0.76	Y	5.76	
0923	6.30	.14	.3/min	19.22	2.85	7.26	32.8	-166	0.68	Y	5.75	
0926	7.20	.16	.3/min	19.19	2.84	7.25	32.7	-166	0.64	Y	5.75	
0929	8.10	.180	.3/min	19.19	2.84	7.24	26.3	-165	0.64	Y	5.75	
Previous Log readings												

Sample Date: 5/3/06 **Start Time:** 0930 **End Time:** 0945

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 6.21 **MS/MSD** ☒

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	2
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
28SW04-A5216 NS	X								X	X														X

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: MS/MSD

3 Bottles

Sampler: C. Sim / A. Ralef

Innovative Technical Solutions, Inc.

LANDFILL GAS MONITORING
IR Site 1, Alameda Point
Alameda, California

Date: 5/3/06
Project Number: 02-125.11
Personnel: B. Womack

Clouds,winds: Foggy / Breezy
ApproximateTemperature: 60-65 °F

PROBE ID	Screen Interval (ft.below TOC)	Time	Internal Pressure/ Ambient Pressure (millibars) in Hg	Head-Space Readings						Post-Purge Readings						Purge Duration / Gas Sample Collection Time (a) or Comments
				PID (ppm)	LEL/Methane (%)	Oxygen (%)	CO_2 (%)	Balance Gas (%)	H_2S (ppm)	PID (ppm)	LEL/Methane (%)	Oxygen (%)	CO_2 (%)	Balance Gas (%)	H_2S (ppm)	
MG1-01-S	2-4	0759	-29 / 29.85 ~~29.85~~	0.1	Ø / Ø	19.8	0.9	79.3		0.1	Ø / Ø	19.8	0.9	79.3		30 mL / 0820
MG1-01-D	5-7	0752	/		/						/					→ FLOODED
MG1-02-S	1-3	0730	-29 / ~~29.85~~	0.1	Ø / Ø	20.9	0.1	79.0		0.1	Ø / Ø	20.9	0.1	79.0		30 mL / ~~0738~~ 0805
MG1-02-D	4-6	0743	-29 / 29.85		/						/					FLOODED
MG1-03-S	0-2	1046	-29 / 29.86	0.1	Ø / Ø	20.6	0.4	79.0		0.1	Ø / Ø	20.8	0.2	79.0		70 mL / 1052
MG1-03-D	2-4	1058	/ 29.86		/						/					→ FLOODED
MG1-04-S	0-2	1000	-29 / 29.87	0.1	Ø / Ø	19.3	1.8	78.9		0.1	Ø / Ø	19.2	1.8	79.0		30 mL / 1009
MG1-04-D	2.5-4.5	1010	-29 / 29.87	0.1	836 / 41.8	1.7	6.3	51.2		0.1	744 / 37.2	3.0	5.5	54.3		70 mL / 1022
MG1-05-S	0.4-2.4	0920	-29 / 29.88	0.1	Ø / Ø	18.7	3.2	78.1		0.1	Ø / Ø	18.5	3.2	78.3		30 mL / ~~0925~~ 0918
MG1-05-D	3-5	0903	-29 / 29.88	0.1	Ø / Ø	18.3	3.5	78.2		0.1	Ø / Ø	18.3	3.5	78.2		30 mL / ~~0918~~ 0925

Innovative Technical Solutions, Inc.

LANDFILL GAS MONITORING
IR Site 2, Alameda Point
Alameda, California

Date: _____ Clouds, winds: _____

Project Number: 02 125.11 Approximate Temperature: _____

Personnel: _____

PROBE ID	Screen Interval (ft.below TOC)	Time	Internal Pressure/ Ambient Pressure (millibars)	Head-Space Readings						Post-Purge Readings						Purge Duration / Gas Sample Collection Time (a) or Comments
				PID (ppm)	LEL/Methane (%)	Oxygen (%)	CO_2 (%)	Balance Gas (%)	H_2S (ppm)	PID (ppm)	LEL/Methane (%)	Oxygen (%)	CO_2 (%)	Balance Gas (%)	H_2S (ppm)	
MG2-01-S			/		/						/					/
MG2-01-D			/		/						/					/
MG2-02-S			/		/						/					/
MG2-02-M			/		/						/					/
MG2-02-D			/		/						/					/
MG2-03-S	0-2	1347	-29/29.80	9.7	Ø / Ø	18.4	3.0	78.6		7.2	Ø / Ø	18.8	2.9	78.3		30mL / 1351
MG2-03-M	2-4	1357	/29.80	0.6	122 / 6.1	10.5	19.0	64.4		0.4	128 / 6.4	2.7	22.3	68.5		30mL / 1403
MG2-03-D	4-6	1335	/29.79		6 / 3.0	0.2	21.8	75.0			/					FLOODED
MG2-04-S	1.8-3.8	1242	-29/29.84	4.9	28 / 1.4	6.1	15.1	77.4		2.2	Ø / Ø	~~8.7~~ 7.3	~~17.2~~ 17.3	~~78.9~~ 77.0		70mL / 1257
MG2-04-M	3.8-5.8	1258	-29/29.81	2.1	356 / 17.8	0.4	25.0	56.8		2.5	356 / 17.8	0.0	25.2	57.0		30mL / 1317

Floods

MG2-04-D	~~5.8-7.8~~	~~1227~~	~~-25 / 29.84~~	0.1	40 / 2.0	18.0	2.0	78.0		0.1	~~Ø / Ø~~	~~20.6~~	0.1	~~79.3~~		~~30 mm / 1241~~	
MG2-05-S	1-3	1133	-29 / 29.85	0.1	Ø / Ø	19.6	2.0	79.4		0.1	Ø / Ø	19.4	2.0	79.6		30 mm / 1143	
MG2-05-D	3-5	1144	-29 / 29.85	0.1	Ø / Ø	18.2	6.4	75.4		0.1	Ø / Ø	6.0	16.0	78.0		30 mm / 1151	

Innovative Technical Solutions, Inc.

A5253

TRIP BLANK ID: TB1-~~A5259~~

Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 1

DATE (YYYMMDD) 2006/05/03 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J. Cuyo

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A ~~5260~~ 5254
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYMMDD) 2006/05/03 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☒ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J D Cey

A5255

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-~~A5261~~
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 3

DATE (YYYMMDD) 2006/05/03 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☒ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cuy

TAILGATE SAFETY MEETING

Innovative Technical Solutions, Inc.

Date: 5/4/06 Time: 0630 Page: 1 of 1

Customer: NAVY Project: Alameda Basewide GroundwaterSampling Contract #: N68711-02-D-8213 Proj. #: 02 125.11

Work Description: GROUNDWATER SAMPLING / SOIL GAS SAMPLING

EMERGENCY PROCEDURES

Emergency Contact: Ambulance/Alameda Hospital Emergency Number: 911, 510-523-4357

Hospital/Clinic: Alameda Hospital Address: 2070 Clinton Avenue

Evacuation Procedures: Meet at trailer and await further instructions

OTHER EMERGENCY CONTACTS

Name	Phone	Name	Phone
Jeff Lott ITSI H&S	925-250-7943	Gerard Ellison ITSI Site H&S	925-250-8154
Arvind Acharya ITSI PM	510-719-6858	JD Lenzen ITSI Task Mgr	925-765-1335

SITE HAZARDS

Physical Hazards	*Chemical Hazards (include chemical products)*
Slip, Trip, Fall/ Spill, Splash	Sample preservatives (HCl, HNO3, NaOH,
Vehicular hazards, traffic	ZnAc)
Objects around well boxes, biological hazards	Contact with potentially contaminated
(thorns, insects)	groundwater

SITE ENTRY REQUIREMENTS

Check-In Procedures: N/A

Training Requirements: 40 hr OSHA HAZWOPER, UXO Awareness

Minimum PPE Required: Level D

Special Precautions:

TODAY'S SPECIFIC SAFETY ISSUES

Today's work: Water Level Collection/Groundwater Sampling

Specific safety issues/work practices: Use caution when opening wells, watchful around traffic.

ATTENDEES

Name (print)	Signature	Company	Name (print)	Signature	Company
Dennis Hill	D. Hill	ITSI			
R. Chapple	R Chapple	ITSI			
Brett Wolman		ITSI			
Anthony S. Drolet		MACTEC			
Chad Simpson		MACTEC			
Kimberly Ha		ITSI			
Brian Dee		ITSI			

MEETING CONDUCTED BY

Health & Safety Officer: GERARD ELLISON (Name (printed)) (Signature)

Site Superintendent: J.D. LENZEN (Name (printed)) (Signature)

CONTRACTOR QUALITY CONTROL REPORT

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

DATE 5/4/06

REPORT NO 216

PHASE | CONTRACT NO N68711-02-D-8213 | CONTRACT TITLE Alameda Basewide Groundwater Sampling

PREPARATORY

WAS PREPARATORY PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

INITIAL

WAS INITIAL PHASE WORK PREFORMED TODAY? YES ☐ NO ☒

IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.

Schedule Activity No.	Definable Feature of Work	Index #

FOLLOW-UP

WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES ☒ NO ☐

WORK COMPLIES WITH SAFETY REQUIREMENTS? YES ☒ NO ☐

Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present
	Groundwater sampling at IR Sites 7 and 8
	Two groundwater wells sampled at Site 7; 100% complete
	Five groundwater wells sampled at Site 8; 100% complete
	Base-wide groundwater sampling is 99% complete. One well (D02-R) remains to be sampled at Site 25
	Soil gas sampling at IR Sites 2 and 25
	Five soil gas probes sampled at Site 2; 100% complete (except flooded probes)
	Ten soil gas probes sampled at Site 25; 100% complete

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)

Schedule Activity No.	Description
	Sample needs to be collected at Site 25, D02-R

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)

Schedule Activity No.	Description

REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.

Schedule Activity No.	Description
	Well D02-R will be sampled 5/8/06
	Tidal study will begin week of 5/8/06
	T & D of purge water pending final sample collection

On behalf of the contractor, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

AUTHORIZED QC MANAGER AT SITE — DATE 5/4/06

GOVERNMENT QUALITY ASSURANCE REPORT

DATE

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

Schedule Activity No.	Description

GOVERNMENT QUALITY ASSURANCE MANAGER — DATE

Innovative Technical Solutions, Inc. (ITSI)	DATE	5/4/06
FIELD ACTIVITY DAILY LOG	Report	216
Project Name: Alameda Basewide Groundwater Monitoring	Project No	02-125.11
Activity Subject: Sampling of Basewide Program Monitoring Wells		

ITSI Personnel on Site			Subcontractors On Site		
	Title	Hours Worked	Name	Title	Hours Worked
Gerard Ellison	QC Manger	8	**MacTech**		
JD Lenzen	Task Manager	10	Anthony Drolet	Field Tech	6
Brian Dee	Field Tech	8	Chad Simpson	Field Tech	6
Dennis Hill	Field Tech	6			
Robyn Chapple	Field Tech	6			
Kimberly Tom	Field Tech	6			
Brett Womack	Field Tech	10			

Total Work Hours On Job Site This Date inc. Cont. Sheet	66
Cumulative Total of Work Hours From Previous Report	1212
Total Work Hours On Job Site From Start Of Construction	1278

	YES	NO
Was a Job Safety Meeting Held This Date ?	X	
(if yes attach meeting minutes)		
Were There Any Lost Time Accidents This Date?		X
(if yes attach a copy of a completed OSHA report)		
Was Crane/Manlift/Trenching/Scaffold/HV Electric/High Work/Hazmat Work?		X
(If yes attach statement or checklist showing inspection performed) (See Field Activities)		
Was Hazardous Material/Waste Released Into The Environment?		X
(if yes attach description of the incident)		
Safety Requirements Have Been Met	X	

Materials Received

NONE

Equipment on Site	Start	Off	Equipment on Site	Start	Off
Ford F-150	4/10/2006				
ord Aerostar	4/10/2006				
ord F-150 4x4	4/10/2006				
GMC Sierra	4/10/2006				
2500 gal Baker Tank	11/9/2004				
50' ConEx	11/9/2004				
Portables	11/9/2004				

Field Activities:

Groundwater sampling at IR Sites 7 and 8
Two wells sampled at Site 7
Five wells sampled at Site 8
Soil Gas sampling at IR Sites 2 and 25
Five soil gas probes sampled at Site 2
Ten soil gas probes sampled at Site 25

Action Items:

None

Visitors on Site	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
See Tailgate	None

WEATHER CONDITIONS:

Clear, sunny with afternoon breeze

SIGNATURE: Gerard Kelli DATE: 5/4/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5/04/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Monitor well samples.			
Subcontractors/Visitors:			
Weather: cool overcast			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0605: arrived on site, load trucks
- calibrated field instruments
0630: Held morning tailgate meeting
0700: Moved to site 8
0720: Set up and started purge on M08-07
0745: Collected sample M08-07-AS163
0845: Set up and started purge on M07A-03
0910: Collected sample M07A-03-AS155
1000: unloaded samples and equipment
1100: Packed field equipment for delivery back to the vendor.
1200: Completed paperwork

Prepared by:	BJ.	Signature:	Brian P. Jao	Date:	5/04/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling		Date: 5.4.06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11	
Work Description: Well Sampling at site 8			
Subcontractors/Visitors:			
Weather: Sunny			

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

06:00 – 06:30 – Tailgate safety meeting, calibration & loading of equipment

06:45 – 07:45 – Purged and sampled well # MO8-01

07:50 – 08:30 – Purged and sampled well # DO8-01

08:30 – 09:20 – Purged and sampled well # MO8-08

09:30 – ~~Demob~~ Unloaded truck & Other misc. duties

RC

Prepared by:	R. CHAPPLE	Signature:	R. Chapple	Date:	5/4/06

Innovative Technical Solutions, Inc.

FIELD ACTIVITY REPORT

Project: Alameda Base-wide Groundwater Sampling	Date: 5/4/06	Page 1 of 1
Client: Navy	Contract No.: N68711-02-D-8213	Project No.: 02 125.11

Work Description: GW Sampling

Subcontractors/Visitors: ITSI

Weather: Cloudy - light Breeze

DESCRIPTION OF FIELD ACTIVITIES AND EVENTS

0600 on site at ITSI field trailer

0615 Calibrate meters PID # 104558 CEL# 9546101

0650 @ MDB-03 DTW = 4.69' TD = 13.40 Sample # MDB-03-A5154 @ 0745

Field Duplicate Sample # MDB-03-A5160 @ 0745

0910 @ MW7A-10 DTW = 1.00' TD = 10.06' Sample # MW7A-10-A5156 @ 0955

1000 at trailer QC Sample / Bag Ice / Decon equipment.

5/4/06

Prepared by:	C. Simpson	Signature:		Date:	5/4/06

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 8

Event: Spring2006

Purge Date: 5.4.06

Well Number: **M08-08**

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 60 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

0.653

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 20.79 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 5.99 ft.

Field calculated -- 1 casing vol.*: 20.79 liters

Field calculated -- 3 casing vol.*: 62.37 liters

Personal Air Monitoring:	Meter ID#	Results
PID:		0
LEL:		0
02:		0

Measured Well Depth: 14.40 ft.

Depth to Water (DTW): 5.99 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 8.41 ft.

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate (ltr/min)	Temp °C (+/-°C)	Conductivity (mS/cm) (+/- 3%)	pH (7.0 +/- 0.1%)	Turbidity (NTU) (5.0 +/- 0.5)	ORP (+/- 10%)	DO (+/- 10% or 0.3)	Odor (Y/N)	DTW ft	Comments
Verify Calibration												
8:37			.4	16.35	0.609	6.93	78.5	-21	0.96	N	6.25	
8:40	1.2	0.06	.4	16.36	0.494	6.55	56.5	3	0.37	N	6.32	
8:43	2.4	0.12	.4	16.37	0.445	6.26	48.7	25	0.17	N	6.49	
8:46	3.6	0.17	.4	16.36	0.435	6.22	32.5	27	0.16	N	6.52	
8:49	4.8	0.23	.4	16.40	0.438	6.18	17.0	26	0.10	N	6.56	Stabilized
							RC					
Previous Log readings												

Sample Date: 5.4.06 **Start Time:** 8:53 **End Time:** 9:20

Equipment Blank Collected: N/A 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB2-A5257 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

Final Depth to Water 6.56 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M08-08-A5164 NS	X	X	X	X			X		X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Ferrous Iron - 1.0

16 Bottles

Sampler: R. Clapp

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4735**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ ZnAC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB1-A5256	5/04/06	0800	X																								
M08-07-A5163	5/04/06	0745	X	X	X																						
M07A-03-A5155	5/04/06	0910	X	X	X																						

SAMPLED BY: B. Dee
SIGNATURE: Brian P. Dee

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian Dee (Printed Name) — Brian P. Dee (Signature)
ITSI (Company) — 5/04/06 (Date and Time)

RECEIVED BY: AARON GARDNER (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4736**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
~~TB2-A5257~~	5-4-06	7:10	X	X	X																						
TB2-A5257	5-4-06	7:00	X																								
MW-01-A5158	5-4-06	7:10	X	X	X																						
DW-01-A5157	5-4-06	8:12	X	X	X																						
MW-08-A5164	5-4-06	0853	X	X	X																						
										RC																	

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5-4-06 (Date and Time)
RECEIVED BY: Aaron Center (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4737**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	~~HCL~~ Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB3-A5258	5/4/06	0700	X																								
MW08-03-A5159	5/4/06	0745	X	X	X																						
MW08-03-A5160	5/4/06	~~0745~~ 0755	X	X	X																						
★ MW7A-10-A5156	5/4/06	0935	X	X	X																						

SAMPLED BY: C Simpson / A. Drolet
SIGNATURE: CLS

SPECIAL INSTRUCTIONS/COMMENTS:
★ NO HCL PRESERVATIVE

RELINQUISHED BY: Chuck Simpson (Printed Name) CLS (Signature)
ZET SJ (Company) 5-4-06 (Date and Time)

RECEIVED BY: AARON GROENIER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: *Alameda Basewide Groundwater Monitoring (QTR 12)*
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4639**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA	
M07A-03-A5155	5/04/06	0910				X		X			X			X	X	X											

SAMPLED BY: B. See
SIGNATURE: Brian See

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Brian See (Printed Name) — Brian See (Signature)
ITST (Company) — 5/04/06 (Date and Time)

RECEIVED BY: AARON GROWER (Printed Name) — (Signature)

RELINQUISHED BY: (Printed Name) — (Signature)
(Company) — (Date and Time)

RECEIVED BY: (Printed Name) — (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4640**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M07A-10-A5156	5/4/06	0935				X		X			X			X	X	X											

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: CHS

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: Chad Simpson (Printed Name) CHS (Signature)
ITSI (Company) 5/4/06 (Date and Time)

RECEIVED BY: Aaron Gorder (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: Alameda Basewide Groundwater Monitoring (QTR 12)
PROJECT NUMBER: 02-125-11
CONTACT NAME: J.D. Lenzen (925) 765-1335

SAMPLE MATRIX: Water
EVENT: Spring 2006
LAB NAME: Curtis & Tompkins

COC: 4641
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritun Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Umpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
D08-01-A5157*	5.4.06	8:12				X			X		X			X	X	X								X			

RC

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
HSI (Company) 5.4.06 11:30 (Date and Time)

RECEIVED BY: AARON GRANIER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)

RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4642**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M08-01-A5158*	5.4.06	7:10				X			X		X			X	X	X								X			
												RC															

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.4.06 11:30 (Date and Time)
RECEIVED BY: Arlow Grewer (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4643**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritum Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M08-03-A5159*	5/4/06	0745				X			X		X			X	X	X								X			
M08-03-A5160*	5/4/06	~~0745~~ GE 0755				X			X		X			X	X	X								X			

SAMPLED BY: C. Simpson / A. Drolet
SIGNATURE: C Simpson

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Chad Simpson — Printed Name; C Simpson — Signature
ITST — Company; 5.4.06 — Date and Time
RECEIVED BY: AARON GRENIER — Printed Name; Signature

RELINQUISHED BY: Printed Name; Signature
Company; Date and Time
RECEIVED BY: Printed Name; Signature

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Walnut Creek, California 94598
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(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4646**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
M08-07-A5163*	5/04/06	0715				X			X		X			X	X	X								X			

SAMPLED BY: B. Dee
SIGNATURE: Brian F. Dee

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: Brian Dee (Printed Name) Brian F. Dee (Signature)
ITSI (Company) 5/04/06 (Date and Time)

RECEIVED BY: AARON GREENE (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)

RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4647**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS *	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
M08-08-A5164*	5.4.06	0853				X			X		X			X	X	X								X			

RC

SAMPLED BY: R. Chapple
SIGNATURE: R. Chapple

SPECIAL INSTRUCTIONS/COMMENTS: * = Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

RELINQUISHED BY: R. Chapple (Printed Name) R. Chapple (Signature)
ITSI (Company) 5.4.06 11:30 (Date and Time)
RECEIVED BY: AARON GOFENTER (Printed Name) (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

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CHAIN-OF-CUSTODY RECORD

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Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. *Air Toxics Limited assumes no liability with respect to the collection, handling or* shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

Contact Person: Gerard Ellison
Company: ITSI Email: gellison@itsi.com
Address: City: State: Zip:
Phone: 925 250 3154 Fax:
Collected by: (Signature)

Project Info:
P.O. #:
Project #:
Project Name: Alameda BW

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	MG2-04-S	05710	5/3/06	1257	TO-3, TO-15	-29	Ø		
	MG2-04-M	12258	5/3/06	1313	TO-3, TO-15	-29	Ø		
	MG2-03-S	12529	5/3/06	1356	TO-3, TO-15	-29	Ø		
	MG2-03-M	9206	5/3/06	1403	TO-3, TO-15	-29	Ø		
	MG2-02-S	11204	5/4/06	0718	TO-3, TO-15	-27	Ø		
	MG2-02-M	5439	5/4/06	0738	TO-3, TO-15	-29	Ø		
	MG2-01-D	05403	5/4/06	0831	TO-3, TO-15	-30	Ø		
	MG2-01-S	13777	5/4/06	0837	TO-3, TO-15	-30	Ø		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
5/4/06 1200	5/4/6 1200	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	

Lab Use Only

Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact? Yes No None	Work Order #

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

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Page ____ of ____

Contact Person: FRED GILLISON
Company: ITSI Email: gillison@itsi.com
Address: ____ City: ____ State: ____ Zip: ____
Phone: 925 250 0154 Fax: ____
Collected by: (Signature)

Project Info:
P.O. #:
Project #:
Project Name: ALAMEDA BW

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	MG1 - Ø2 - S	2-5	5/3/06	0805	TO-3, TO-15	-29	Ø		
	MG1 - Ø1 - S	3660 5	5/3/06	0820	TO-3, TO-15	-29	Ø		
	MG1 - Ø5 - S	3417 24	5/3/06	0918	TO-3, TO-15	-29	Ø		
	MG1 - Ø5 - D	3114 0	5/3/06	0925	TO-3, TO-15	-29	Ø		
	MG1 - Ø4 - S	4260 2	5/3/06	1009	TO-3, TO-15	-29	Ø		
	MG1 - Ø4 - D	4156 F	5/3/06	1022	TO-3, TO-15	-29	Ø		
	MG1 - Ø3 - S	2994	5/3/06	1050	TO-3, TO-15	-29	Ø		
	MG2 - Ø5 - S	4225	5/3/06	1143	TO-3, TO-15	-29	Ø		
	MG2 - Ø5 - D	3365 6	5/3/06	1151	TO-3, TO-15	-29	Ø		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
3/4/06 1200	5/4/6 1200	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact? Yes No None	Work Order #

IR Site 7

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/4/06

Well Number: **M07A-03**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 55 **Sample Team:** ☒ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	405881	0.0
LEL:	" "	0.0
02:	" "	20.9

Measured Well Depth: 13.30 ft.
Depth to Water (DTW): 2.42 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 10.88 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: _____ liters
Casing Radius (R): 2 1- inch
Verified Depth to Water: 2.42 ft.
Field calculated -- 1 casing vol.*: 5.22 liters
Field calculated -- 3 casing vol.*: 15.67 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0845	0.3	0.057	0.3	19.05	67.0	6.56	-0.1	-259	2.33	Y	3.39	
0848	0.6	0.115		18.86	63.6	6.59	-0.1	-257	1.35	Y	3.76	
0851	0.9	0.172		18.66	62.6	6.58	-0.1	-254	1.15	Y	4.13	
0854	1.2	0.230		18.56	62.1	6.58	-0.1	-250	0.85	Y	4.40	
0857	1.5	0.287		18.39	61.3	6.58	-0.1	-244	0.61	Y	4.67	
0900	1.8	0.345		18.28	60.5	6.58	-0.1	-243	0.52	Y	5.15	
0903	2.1	0.402	V	18.24	60.3	6.58	-0.1	-241	0.43	Y	5.25	
							DRY					
Previous Log readings												

Sample Date: 5/04/06 **Start Time:** 0910 **End Time:** 0925 **Equipment Blank Collected:** N **Trip Blank Collected:** TB1-A5256

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 180 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.25 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M07A-03-A5155	NS	X	X	X	X		X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: For 5.2 mL. 16 Bottles Sampler BH/KT

IR Site 7

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/4/06

Well Number: M07A-10

Weather: Sunny, Cloudy, Rain, Windy, Hot Temperature: 62°F Sample Team: ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	104558	0.2
LEL:	9546191	0
02:		0

Measured Well Depth: 10.06 ft.

Depth to Water (DTW): 1.00 ft.

Calculated height of water in well (T=Well Depth - Depth to Water): 9.06 ft.

One Casing Volume= [~~0.163~~ 0.653 x T(ft) x R(inches)] x 3.7854: 44.7 liters

Casing Radius (R): 2 inch

Verified Depth to Water: 1.00 ft.

Field calculated -- 1 casing vol.*: 44.7 liters

Field calculated -- 3 casing vol.*: 134.10 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0912	.90	.02	.3/min	19.73	63.2	6.49	31.3	-344	1.52	Y	1.42	S
0915	1.80	.04	.3/min	18.65	62.2	6.55	15.3	-356	1.67	Y	1.85	T
0918	2.70	.06	.3/min	18.61	59.5	6.58	15.1	-362	1.88	Y	1.95	R
0921	3.60	.08	.3/min	18.59	57.5	6.60	25.4	-367	1.99	Y	2.02	O
0924	4.50	.10	.3/min	18.60	56.8	6.61	0	-370	2.01	Y	2.06	O N
0927	5.40	.12	.3/min	18.60	56.8	6.61	0	-324	2.00	Y	2.10	D G
0930	6.30	.14	.3/min	18.60	56.7	6.60	0	-312	1.99	Y	2.12	O
												R
												1
Previous Log readings												

Sample Date: 5/4/06 **Start Time:** 0935 **End Time:** 0952

Equipment Blank Collected: _____ 1/day/team when portable pump (or other non disposable reusable equipment) is used

Trip Blank Collected: TB3-A5258 Complete a Collected Sample Form for each blank collected.

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

Final Depth to Water 3.67 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Perrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M07A-10-A5156 NS	X	X	X	X		X			☒			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: Ferrous Iron = 7 mg/L

16 Bottles

Sampler: C. Sing, A. Nolan

IR Site 8

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.4.06

Well Number: D08-01

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 55 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 70.50 ft.
Depth to Water (DTW): 6.75 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 63.75 ft.

0.367
One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 88.56 liters
Casing Radius (R): 1.5 inch
Verified Depth to Water: 6.75 ft.
Field calculated -- 1 casing vol.*: 88.56 liters
Field calculated -- 3 casing vol.*: 265.68 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
7:57			.4	18.02	59.5	6.36	0.0	-127	4.79	N	6.89	
8:00	1.2	0.01	.4	18.65	60.1	6.41	16.4	-162	0.75	N	6.89	
8:03	2.4	0.03	.4	18.75	66.8	6.47	-5.0	-177	0.20	N	6.89	
8:06	3.6	0.04	.4	18.84	66.3	6.51	-5.0	-147	0.15	N	6.89	
8:09	4.8	0.05	.4	18.90	65.5	6.53	-5.0	-132	0.12	N	6.90	Stabilized
								RC				
Previous Log readings												

Sample Date: 5.4.06 **Start Time:** 8:12 **End Time:** 8:32 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB2-A5257

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 6.90 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	--	--	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	--	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
D08-01-A5157	NS	X	X	X	X			X		X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered

*Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: [illegible]

16 Bottles

Sampler: [illegible]

IR Site 8

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5.4.06

Well Number: M08-01

Weather: (Sunny) Cloudy, Rain, Windy, Hot Temperature: 55 Sample Team: ☐ Team 1 ☒ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:		0
LEL:		0
02:		0

Measured Well Depth: 14.0 ft.
Depth to Water (DTW): 4.31 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.69 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.98 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.31 ft.
Field calculated -- 1 casing vol.*: 5.98 liters
Field calculated -- 3 casing vol.*: 17.94 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
6:47			.4	18.66	13.3	6.29	13.8	-186	3.25	Y	4.52	
6:50	1.2	0.20	.4	18.50	4.85	6.88	0.0	-215	0.43	N	4.57	
6:53	2.4	0.40	.4	18.49	2.92	6.94	0.0	-203	0.27	N	4.59	
6:56	3.6	0.60	.4	18.50	2.54	6.93	0.0	-187	0.44	N	4.62	
6:59	4.8	0.80	.4	18.58	2.25	6.91	0.0	-174	0.74	N	4.62	
7:02	6.0	1.00	.4	18.59	2.11	6.90	0.0	-161	1.14	N	4.62	(DO-1.14)
7:05	7.2	1.20	.4	18.63	2.10	6.88	0.0	-153	1.25	N	4.62	
7:08	8.4	1.40	.4	18.64	2.04	6.89	0.0	-149	1.37	N	4.62	stabilized
						RE						
Previous Log readings												

Sample Date: 5.4.06 Start Time: 7:10 End Time: 7:40
Equipment Blank Collected: N/A Trip Blank Collected: TB2-A5257
1/day/team when portable pump (or other non disposable reusable equipment) is used
Complete a Collected Sample Form for each blank collected.
Pump Collected With: Peristaltic Volatile Sample Flow Rate: 100 mL/min
Final Depth to Water 4.62 MS/MSD ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M08-01-A5158 NS	X	X	X	X			X		X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comment: Ferrous Iron 0.2

16 Bottles

Sampler: R. Apple

IR Site 8

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 5/4/06

Well Number: **M08-03**

Weather: Sunny, Cloudy, Rain, Windy, Hot **Temperature:** 58°F **Sample Team:** ☐ Team 1 ☐ Team 2 ☒ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	1045558	1.6
LEL:	9546101	0
02:	11 4	0

Measured Well Depth: 13.40 ft.
Depth to Water (DTW): 4.69 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 8.71 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 5.40 liters
Casing Radius (R): 1 inch
Verified Depth to Water: 4.69 ft.
Field calculated -- 1 casing vol.*: 5.40 liters
Field calculated -- 3 casing vol.*: 16.20 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0656	.90	.17	.3/min	17.71	2.82	6.04	0	-191	5.36	N	4.84	
0659	1.80	.33	.3/min	17.81	1.52	6.17	0	-190	2.44	N	4.98	
0702	2.70	.50	.3/min	17.86	1.00	6.15	0	-179	1.76	N	5.01	
0705	3.60	.67	.3/min	17.85	0.940	6.17	0	-183	1.61	N	5.02	
0708	4.50	.83	.3/min	17.88	0.777	6.18	0	-209	1.20	N	5.02	
0711	5.40	1.00	.3/min	17.92	0.746	6.22	0	-215	1.12	N	5.03	
0714	6.30	1.17	.3/min	17.95	0.739	6.25	0	-220	1.05	N	5.03	
0717	7.20	1.33	.3/min	17.97	0.739	6.29	0	-223	0.98	N	5.04	
0720	8.10	1.50	.3/min	17.99	0.803	6.33	0	-225	0.90	N	5.03	
0723	9.00	1.67	.3/min	17.99	0.829	6.36	0	-225	0.86	N	5.04	
Previous Log readings				See continuation form								

Sample Date: 5/4/06 **Start Time:** 0745 **End Time:** 0840 **Equipment Blank Collected:** N/A **Trip Blank Collected:** TB-A5258

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 75-100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 5.04 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative		HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA
WELL ID & SAMPLE TYPE		VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers		3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container		40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M08-03-A5159	NS	X	X	X	X			X		X*			X	X	X								X	X	
M08-03-A5160*	FD	X	X	X	X			X		X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: Formus Tan = 3.4 mg/l

32 Bottles

Sampler: C. Simpson / A. Mallet

ALAMEDA PURGE LOG Continuation Form

Well Number: MW8-03

Purge Date: 5/4/06

Event: SPRING 2006

Page # 141

Source 30

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/- °C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0726	9.90	1.83	.3/min	18.00	0.848	6.39	0	-232	0.81	N	5.04	
0729	10.80	2.00	.3/min	18.01	0.821	6.43	0	-236	0.74	N	5.04	
0732	11.70	2.17	.3/min	18.03	0.739	6.45	0	-241	0.63	N	5.04	
0735	12.60	2.33	.3/min	18.03	0.785	6.46	0	-243	0.55	N	5.04	
0738	13.50	2.50	.3/min	18.05	0.764	6.48	0	-242	0.51	N	5.04	
0741	14.40	2.67	.3/min	18.07	0.774	6.49	0	-241	0.50	N	5.04	
0744	15.30	2.83	.3/min	18.07	0.768	6.49	0	-229	0.51	N	5.04	
Previous Log readings												

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

IR Site 8 — **Event: Spring2006** — Purge Date: 5/4/06

Well Number: **M08-07**

Weather: Sunny, Cloudy, Rain, Windy, Hot — **Temperature:** 60 — **Sample Team:** ☑ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	105881	0.0
LEL:	" "	0.0
02:	" "	20.9

Measured Well Depth: 13.95 ft.
Depth to Water (DTW): 4.44 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 9.51 ft.

One Casing Volume=[0.163 x T(ft) x R(inches)] x 3.7854: _____ liters
Casing Radius (R): 2 inch
Verified Depth to Water: 4.44 ft.
Field calculated -- 1 casing vol.*: ~~2.68~~ 5.76 liters
Field calculated -- 3 casing vol.*: ~~8.06~~ 17.28 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration		0.052	(ltr/min)	(+/-0C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
0720	0.3	~~0.112~~	0.3	17.31	1.63	6.37	-0.1	-41	2.29	N	4.50	
0723	0.6	0.104	↓	17.18	1.29	6.62	-0.1	-36	1.30	N	4.50	
0726	0.9	0.156		17.05	0.97	6.74	-0.1	-29	0.86	N	4.51	
0729	1.2	0.208		16.96	0.45	6.74	-0.1	-14	0.48	N	4.51	
0731	1.5	0.260		16.90	0.39	6.65	-0.1	-5	0.21	N	4.51	
0734	1.8	0.312		16.86	0.35	6.55	-0.1	3	0.16	N	4.51	
0737	2.1	0.364	↓	16.85	0.34	6.53	-0.1	6	0.12	N	4.51	
Previous Log readings												

Sample Date: 5/04 **Start Time:** 0715 **End Time:** 0820 **Equipment Blank Collected:** N **Trip Blank Collected:** TBI-A5256

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equipment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water 4.51 **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

	Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
	WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
	Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
	Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
M08-07-A5163	NS	X	X	X	X			X		X*			X	X	X								X	X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: FCs 0.0

16 Bottles

Sampler: BOLKT

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB1-A5256
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: 1

DATE (YYYMMDD) 2006/05/04

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: J D Cyr

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB2-A5257
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring** TEAM #: 2

DATE (YYYMMDD) 2006/05/04 TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cy

Innovative Technical Solutions, Inc.

TRIP BLANK ID: TB3-A5258
Alameda: Groundwater Sampling
Quarter 13 – Spring 2006

COLLECTED SAMPLE FORM FOR QC BLANKS

INST CODE: **Alameda Groundwater Monitoring**

TEAM #: ~~7~~ 10 3

DATE (YYYMMDD) 2006/05/04

TIME (24 HRS) 700

SAMPLE TYPE (Circle One)	SAMPLE METHOD	SAMPLE MATRIX
(TB) (Trip blank for a NS sample)	(NA)	(WQ)
EB (equipment rise blank)	NA	WQ
AB (ambient blank)	NA	WQ
SB (source blank)	G	WH

Equipment Blank ID: NA

Ambient Blank ID : NA

SOURCE WATER
Manufacturer: NA
Lot Number : NA

ANALYTICAL PARAMETERS

ANALYSIS	CONTAINERS	ANALYSIS	CONTAINERS
☑ VOCs (8260B)	3 x 40 ml VOA	☐ Cyanide	1 x 0.5 L PE
☐ Methane/Ethane/Ethene	2 x 40 ml VOA	☐ Anions	1 x 1 L PE
☐ TPH – Purgeables	2 x 40 ml VOA	☐ Alkalinity	1 x 0.5 L PE
☐ TPH – Extractables	2 x 1 L Amber	☐ Sulfide	1 x 0.5 L PE
☐ SVOCS	1 x 1 L Amber	☐ Gross Alpha/Beta	1 x 1 L PE
☐ PAHs	1 x 1 L Amber	☐ Radium	2 x 1 L PE
☐ Pesticides	2 x 1 L Amber	☐ Tritium Isotopes	1 x 250 ml Amber
☐ PCBs	2 x 1 L Amber	☐ Radium – 228	1 x 1 L PE
☐ Dissolved Metals	1 x 0.5 L PE	☐ TDS	1 x 250 ml Amber
☐ Hexavalent Chromium	1 x 0.5 L PE	☐ 1,4 Dioxane	1 x 1L Amber

Miscellaneous Analysis:

Comments:

Sampler/Preparer's Signature: JD Cy

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4673**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	—	—	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA	
~~D-02-A5192~~ D-02R-A5192	05/08/06	1050						X			X			X	X	X											

SAMPLED BY: JD LENZEN
SIGNATURE: JD Lenzen

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: JD LENZEN (Printed Name) JD Lenzen (Signature)
ITSI (Company) 05/08/06 11:30 (Date and Time)
RECEIVED BY: AARON GRENTER (Printed Name) (Signature)

RELINQUISHED BY: (Printed Name) (Signature)
(Company) (Date and Time)
RECEIVED BY: (Printed Name) (Signature)

Innovative Technical Solutions, Inc.
2730 Shadelands Drive, Suite 100
Walnut Creek, California 94598
(925) 946-3100 (Tel)
(925) 256-8998 (Fax)

CHAIN OF CUSTODY

PROJECT NAME: **Alameda Basewide Groundwater Monitoring (QTR 12)**
PROJECT NUMBER: **02-125-11**
CONTACT NAME: **J.D. Lenzen (925) 765-1335**

SAMPLE MATRIX: **Water**
EVENT: **Spring 2006**
LAB NAME: **Curtis & Tompkins**

COC: **4741**
Page: 1 of 1

ANALYSIS

FIELD SAMPLE ID: INFORMATION	DATE	TIME	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS	COMMENTS (Check if MS/MSD requires Double Volume)
Number of Container			3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	
Sample Container			40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A	
Preservative			HCL	Unpres	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ Zn AC	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	---	NA	
TB1-A5262	05/08/06	7:00	X																								
D-02R-A5192	05/03/06	1050	X	X																							

SAMPLED BY: JD LENZEN
SIGNATURE: JD Lenzen
SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: JD LENZEN (Printed Name) — JD Lenzen (Signature)
ITSI (Company) — 05/08/06 11:30 (Date and Time)
RECEIVED BY: AARON GRENIER (Printed Name) — (Signature)

RELINQUISHED BY: _____ (Printed Name) _____ (Signature)
_____ (Company) _____ (Date and Time)
RECEIVED BY: _____ (Printed Name) _____ (Signature)

IR Site 25

ALAMEDA PURGE LOG AND SAMPLE COLLECTION FORM

Event: Spring2006

Purge Date: 05/08/06

Well Number: D-02R

Weather: (Sunny), Cloudy, Rain, Windy, Hot Temperature: 62 Sample Team: ☑ Team 1 ☐ Team 2 ☐ Team 3

	Meter ID#	Results
Personal Air Monitoring: PID:	~~11~~	0.1
LEL:	~~11~~	0
02:	~~11~~	20.1

Measured Well Depth: 57.12 ft.
Depth to Water (DTW): 4.84 ft.
Calculated height of water in well (T=Well Depth - Depth to Water): 52.28 ft.

One Casing Volume= [0.163 x T(ft) x R(inches)] x 3.7854: 32.25 liters
Casing Radius (R): 1 INCH inch
Verified Depth to Water: 52.28 ft.
Field calculated -- 1 casing vol.*: 32.25 liters
Field calculated – 3 casing vol.*: 96.77 liters

FIELD PARAMETERS

Time	Volume Removed: Liters	Volume Removed: Casing Volumes	Volume Removed: Pumping Rate	Temp °C	Conductivity (mS/cm)	pH	Turbidity (NTU)	ORP	DO	Odor	DTW	Comments
Verify Calibration			(ltr/min)	(+/-°C)	(+/- 3%)	(7.0 +/- 0.1%)	(5.0 +/- 0.5)	(+/- 10%)	(+/- 10% or 0.3)	(Y/N)	ft	
1010	0	0	.3/MIN	18.04	15.4	6.32	143.0	-145	3.0	N	~~4.84~~ 5.30	(D)
1015	1.5	0.0465	.3/MIN	17.95	16.0	6.57	86.6	-155	2.27	N	5.09	
1020	3.0	0.0930	.3/MIN	17.96	15.6	6.66	90.0	-162	1.84	N	4.97	
1025	4.5	0.1395	.3/MIN	17.96	15.4	6.71	101.0	-166	1.62	N	4.95	
1030	6.0	0.1860	.3/MIN	17.92	15.1	6.78	72.1	-171	1.42	N	4.97	
1035	7.5	0.2325	.3/MIN	17.98	14.8	6.82	72.0	-175	1.37	N	4.98	
1040	9.0	0.2790	.3/MIN	18.00	14.6	6.85	76.0	-181	1.31	N	4.98	
1045	10.5	0.3256	.3/MIN	18.06	14.6	6.87	68.0	-183	1.30	N	4.98	✓ stabilized
Previous Log readings												

Sample Date: 05/08/06 **Start Time:** 1050 **End Time:** _____ **Equipment Blank Collected:** NA **Trip Blank Collected:** TBI-A5262

Pump Collected With: Peristaltic **Volatile Sample Flow Rate:** 100 mL/min

1/day/team when portable pump (or other non disposable reusable equpiment) is used

Complete a Collected Sample Form for each blank collected.

Final Depth to Water _____ **MS/MSD** ☐

COLLECTED SAMPLE INFORMATION

Ice + Preservative	HCL	Un-preserved	HCL	NA	NA	NA	NA	NA	HNO_3	NA	NaOH	---	---	NaOH+ zinc acetate	HNO_3	HNO_3	NA	HNO_3	NA	NA	NA	NA	—	NA
WELL ID & SAMPLE TYPE	VOCs	Methane, ethane, ethene	TPH-p as gasoline	TPH-e as diesel, jet fuel, MO	SVOCs	PAHs	Pesticides	PCBs	Dissolved Metals	Hexavalent Chromium	Cyanide	Nitrate, Nitrite, Chloride, Sulfate	Alkalinity	Sulfide	Gross Alpha/Beta	Radium	Tritium Isotopes	Radium-228 Isotopes	Radioactive Strontium	Gamma Emitting Radionuclides	Uranium Isotopes	1,4-Dioxane	Ferrous Iron	TDS
Number of Containers	3	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Sample Container	40 ml V	40 ml V	40 ml V	1 L A	1 L A	1 L A	1 L A	1 L A	0.5 L PE	0.5 L PE	0.5 L PE	1 L PE	0.5 L PE	0.5 L PE	1 L PE	1 L PE	250 mL A	1 L PE	1 L PE	1 L PE	1 L PE	1 L A	1 L PE	250 mL A
~~D-02-A5192~~ D-02R-A5192 NS	X	X				X			X			X	X	X									X	

The order of sample collection above is from left to right. Samples for metals are filtered *Priority Pollutant Metals (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)

Comments: FERROUS IRON = 7.8 mg/l

12 Bottles

Sampler: JD / BD