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Shaw® Shaw Environmental, Inc.
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Revision 0 – February 5, 2007

Corrective Action Area 6
Alameda Point, Alameda, California

Final Field Activity Summary Report

Shaw Environmental, Inc.

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San Diego, CA 92108

Date : February 06, 2007

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Location: Alameda

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Project Manager

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FINAL

FIELD ACTIVITY SUMMARY REPORT
CORRECTIVE ACTION AREA 6
Alameda Point, Alameda, California

Contract Number N62474-98-D-2076
Contract Task Order 0101

Document Control Number 9259
Revision 0

February 5, 2007

Submitted to:

U.S. Department of the Navy
Base Realignment and Closure
Program Management Office West
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Acronyms and Abbreviations

CAA-6	Corrective Action Area 6
cfu/mL	colony forming units per milliliter
CTO	contract task order
DVE	dual vacuum extraction
EPA	U.S. Environmental Protection Agency
IT	IT Corporation
JP-5	jet propellant grade 5
mg/L	milligrams per liter
scfm	standard cubic feet per minute
SOP	standard operating procedure
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons as diesel
TPH-g	total petroleum hydrocarbons as gasoline
TPH-mo	total petroleum hydrocarbons as motor oil
TTPH	total total petroleum hydrocarbons
VOC	volatile organic compound

1.0 Introduction

This document is the Field Activity Summary Report (FAR) for Corrective Action Area 6 (CAA-6), at Alameda Point, Alameda, California (Figure 1). Shaw Environmental, Inc. performed this work on behalf of the United States Department of the Navy under Environmental Remedial Action Contract N62474-98-D-2076, Contract Task Order (CTO) 0101. CTO 0101 began on July 1, 2003 and was a continuation of remedial site work that was originally initiated under CTO 0013 in 2001. The previous FAR for CAA-6 (*Field Activity Summary Report, Parcel 37, Alameda Point, Alameda, California, dated June 14, 2004* [Shaw 2004a]), details field activities completed through December 31, 2004. This report covers field activities performed under CTO 0101 from January 1, 2004 through July 31, 2006. The purpose of the document is to summarize the progression of field activities, and to catalog the laboratory analytical data, boring logs, and survey data pursuant to the work.

1.1 Project Site Location and Background

CAA-6 is the area south of Taxiway # 3, north of West Redline Avenue, and west of the northern terminus of Monarch Street (Figure 2). This area, once known as the Fuel Loading Station, was formerly used as a filling station for trucks servicing on-base aircraft and included fueling islands and truck storage pads. Also present were surface drains and sumps which were used to collect and funnel any possible spilled fuel from the fuel loading areas and service truck stations. These drains led to an oil interceptor pit where the fuel could be recovered and the water discharged.

1.2 Project Scope

The primary objective of the project was to remediate dissolved phase hydrocarbons and recalcitrant free product contamination at the site. The scope of work performed, as prescribed in the *Final Work Plan Addendum and Sampling and Analysis Plan Addendum, Supplemental Corrective Action at Corrective Action Area 6, Parcel 37, Alameda Point, Alameda, California* (Work Plan Addendum) (Shaw, 2004b), was as follows:

- Install and operate vertical dual vacuum extraction (DVE) wells to evaluate and remove residual separate-phase hydrocarbon in the area about and south of Building 377.
- Install and operate low-flow biosparging wells in the area north of Building 377 to address residual hydrocarbons in the smear and vadose zones.
- Collect data on the dispersal of dissolved oxygen and natural attenuation parameters.
- Collect monthly grab groundwater samples to evaluate the extent of dissolved-phase hydrocarbon contamination.

- Prepare and submit a Site Management Plan following three months of post-corrective action monitoring.

A summary description of the field activities performed for the above-listed items is provided in this report. The appendices provide the related photo log, summary analytical reports, Data Quality Assessment, boring logs, survey reports, and waste manifests.

2.0 Site Background

This section provides a brief history of the previous environmental investigations and activities conducted at CAA-6.

2.1 Site Description

CAA-6 was previously used as a fuel transfer station for trucks servicing aircraft on base. CAA-6 formerly consisted of three concrete fueling islands, three truck storage pads, an oil/water separator, and two underground storage tanks (USTs). Areas where fuel was transferred into the service trucks, and where these trucks were parked when not in use, had surface drains or sumps to collect any fuel spilled onto the ground. These drains led to the oil/water separator where the fuel was recovered and the water discharged. A 10,000-gallon fiberglass waste-oil UST and one 5000-gallon steel UST were likely used to store the fuel and fuel-contaminated water recovered by the oil/water separator system and/or any possible fuel/water separator associated with the fuel piping systems.

2.2 Site Characterization and Removal Action

In late October and early November 1998, the Navy Public Works Center, San Diego, performed an investigation of this area using the Site Characterization and Analysis Penetrometer System. The investigation identified a fuel hydrocarbon (jet fuel) plume, measuring roughly 300 feet in diameter, centered in the southwest quadrant of the fuel loading station. In December 1998, all subsurface and surface structures (i.e., fuel pipeline, underground storage tank, fuel drain vault, oil interceptor pit, and water separator system) associated with the fueling station were either removed or abandoned-in-place (IT Corporation [IT], 2001). In January 1999, IT removed a large portion of the fuel contamination by excavating approximately 5,000 cubic yards of the contaminated sandy soil down to 5 feet below ground surface. Although not all of the fuel hydrocarbon contamination was removed, this action allowed the Navy to protect the storm drain system in the area until floating product recovery could be implemented (IT, 2001).

2.3 Remediation Activities under CTO 0013 and 0101

Following the completion of removal activities in January 1999, remediation and recovery of free product was contracted to IT as CTO 0013. Site activities continued under CTO 0013 until July 2003, at which time the project was transferred to CTO 0101. Field activities completed under both CTO 0013 and 0101 through December 2003 were covered in the previous FAR (Shaw, 2004a), and may be summarized as follows:

- In August 2001, sixteen 1-inch diameter piezometers were installed at CAA-6 by IT to evaluate the extent of floating product and to serve as observation points during and

after site remediation. Data from these piezometers was also used to help design the separate-phase remediation system installed in December 2001. The *Draft Pilot Test Report and Progress Update, Fuel Remediation Measures, Parcel 37 and Site 7, Alameda Point, Alameda, California* (IT, 2003) summarizes the work completed.

- A horizontal DVE system was installed in December 2001, and was operated from April 10, 2002 through September 18, 2003. The remediation system targeted separate-phase hydrocarbons and removed approximately 5,300 pounds of hydrocarbon mass. The CAA-6 DVE treatment plant was then demobilized (Shaw, 2004a).
- Post-remedial soil and groundwater sampling was conducted by Shaw (Shaw, 2004a) during September and October 2003. This sampling was completed to characterize site conditions following horizontal DVE operations.

3.0 CTO 101 Field Activities

The following section documents the effectiveness of the vertical DVE and biosparging remediation system at reducing dissolved hydrocarbon concentrations. The biosparging remediation system was designed to remove dissolved-phase product from the groundwater and vadose zone as discussed in the Work Plan Addendum (Shaw, 2004b). The dissolved-phase removal system was designed to complement the separate phase remediation system which was installed and operated under CTO 0013 and continued under CTO 0101 (Shaw, 2004a). Vertical DVE wells were also implemented during this supplemental remedial effort to address recalcitrant separate phase hydrocarbons southeast of Building 377A (Figure 2).

The verification of free product was important for this remedial task as it dictated the need for vertical DVE well activities. Therefore, pursuant to the Petroleum Strategy for Alameda Point, (*Preliminary Remediation Criteria and Closure Strategy for Petroleum-Contaminated Sites at Alameda Point, Alameda California*, 2001), total total petroleum hydrocarbon (TTPH) concentrations in groundwater were used to screen for floating product. The floating product screening level was set at 20 milligrams per liter (mg/L), per the Petroleum Strategy.

A photo log illustrating significant work activities is included in Appendix A. The operation of the vertical DVE wells, biosparging system, and subsequent post-operational sampling, are discussed in this section.

3.1 Vertical DVE Wells and Biosparging System Installation

Four vertical DVE wells, three observation wells, and six biosparging wells were installed within the CAA-6, between July 19 and July 22, 2004 (Figure 2). All wells were developed for at least 1 hour using a vacuum extraction skid. Borehole logs and well completion reports are included in Appendix B.

All installed wells were surveyed by Calvada Surveying, Inc. on August 26, 2004. The horizontal coordinates of each survey point referenced the California State Plane Coordinate System, Zone III of 1983 (NAD 83). This datum was converted by Shaw using *Corpscon Version 6.0.1* ™(U.S. Army Corps of Engineers, 2004) to NAD 27. Elevations were referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29). All survey data are provided in Appendix B.

DVE operations commenced on August 16, 2004 and continued through September 27, 2004. A vacuum truck was used to remove fluids (i.e., groundwater and free product, if present) for approximately 4 to 8 hours per extraction event. Four extraction events were completed between August 16 and August 30, 2004. Operations were temporarily halted between August 26 and

August 30 to allow for baseline sampling. Following baseline sampling, vacuum truck DVE operations continued with extraction events occurring approximately 2 to 3 times per week. During this time, extraction wells and select piezometers were checked for free product on a weekly basis. Groundwater levels and product thickness logs are listed in Appendix C.

On September 27, 2004, vacuum truck DVE operations were discontinued as separate phase hydrocarbons had not been detected in any of the vertical DVE wells, and as TTPH groundwater results in these DVE wells and surrounding piezometers were less than the TTPH screening level of 20 mg/L (Navy, 2001). DVE wells were sampled again on September 30, 2004 and TTPH results ranged from 0.10 to 10.1 mg/L. A total of 17 extraction events were conducted from August 16 through September 27, 2004; extracting approximately 10,500 gallons of liquid. All extracted fluids were processed through the Building 397 Treatment Plant under East Bay Municipal Utility District Permit No. 5024981 2. The vacuum truck activity logs for these events are included in Appendix D.

Operation of the biosparging system was initiated on September 1, 2004, and continued through August 15, 2005. The six biosparging wells (BW-1 through BW-6) were manifolded to an oil-less 7.5-horsepower air compressor located east of piezometer CA06-06. Operations commenced at a nominal air injection rate of 0.5 standard cubic feet per minute (scfm), though this was increased to 1.5 scfm shortly thereafter. The four existing vertical DVE wells were added into the biosparging system on February 2, 2005 as an interim measure to address residual hydrocarbons. On March 18, 2005, four additional dedicated biosparging wells (BW-7 through BW-10) were installed in close proximity to the four existing vertical DVE wells (Figure 2). These wells were manifolded into the biosparging system as a second branch, and operations commenced on April 15, 2005. From July 2005 through August 15, 2005, biosparging operations were reduced to eight wells (BW-2 through BW-4 and BW-6 through BW-10). The two branches of the system operated in an alternating manner with injections lasting 5 to 40 minutes per cycles. Nominal air injection rates ranged from 0.9 to 2.8 scfm. On August 15, 2005 the biosparge system was shutdown in response to low TTPH concentrations.

3.2 Microbial Activity and Enumeration Results

Both soil and groundwater samples were periodically collected, and heterotrophic plate count analyses of diesel-range degraders (C_{12} to C_{24}) were performed to evaluate microbial activity, by U.S. Environmental Protection Agency (EPA) Method 9215B. Concurrently, groundwater samples were also analyzed for the following natural attenuation parameters:

- Anions, EPA Method 9056
- Dissolved Gases, R.S. Kerr Standard Operating Procedure (SOP) 175
- Total Organic Carbons, R.S. Kerr SOP 415.1
- Alkalinity, R.S. Kerr SOP 310.1

Enumeration results for soil and groundwater are listed in Appendix E. Analysis for natural attenuation related parameters were also performed, the results of which are included in Appendix F. Soil sample results from August 25, 2004 show bacteria counts ranging from 2 x 10^3 to 3 x 10^5 colony forming units per gram. These data were collected prior to the start of biosparging operations. Groundwater bacteria enumeration samples were collected prior to, during, and after biosparging operations. Field sampling events were as follows: August 25 to 30, 2004; September 30, 2004; January 12 to 14, 2005; July 21, 2005; and February 20, 2006.

3.3 Groundwater, Soil and Soil Vapor Sampling

Groundwater, soil, and soil vapor sampling was conducted periodically at select wells, piezometers, and extraction points between January 2004 and June 2006. Sampling was conducted to help evaluate the effectiveness of the remediation system and to monitor post-operational conditions.

Groundwater samples were first collected on February 25, 2004 as part of the quarterly post-operational sampling associated with the earlier CTO 0013 / 0101 horizontal DVE free product removal action. These samples were analyzed for the following parameters:

- Total petroleum hydrocarbons (TPH) as gasoline (TPH-g), diesel fuel (TPH-d), jet propulsion fuel no. 5 (JP-5), and motor oil (TPH-mo), EPA Method 8015B
- Volatile organic compounds (VOCs), EPA Method 8260B

Following the February 25, 2004 quarterly event, quarterly sampling was halted in anticipation of renewed remedial activities scheduled to occur in the late summer of 2004. In August 2004, operational site monitoring resumed and groundwater samples were collected at select wells and piezometers on a monthly to bimonthly basis. Groundwater grab samples were generally analyzed for TPH-d, JP-5, and TPH-mo select samples were also analyzed for natural attenuation parameters as noted in Subsection 3.2. In late September 2005, after biosparge operations had ceased, a post-shutdown round of groundwater sampling was performed. Samples were analyzed for TPH-g, TPH-d, JP-5, TPH-mo, and VOCs. From October 2005 through June 2006, interim monitoring of site groundwater was performed. This included the collection of 5 to 6 groundwater samples per month, with these samples being analyzed for TPH-d, TPH-mo, and JP-5. The results of these analyses are presented in Appendix F.

Soil samples were collected on August 25 and 30, 2004 and were analyzed for TPH constituents by EPA Method 8015B, and petrophysical/geotechnical soil properties by American Society for Testing and Materials Standard D4464M. Petrophysical/geotechnical parameters such as hydraulic conductivity and grain size analysis were measured to aid in the operation of the

biosparging system. Laboratory analytical soil results for both TPH constituents and petrophysical properties are included in Appendix F.

Soil vapor sampling was conducted on August 31, September 1, and September 2, 2004. Samples were analyzed for VOCs by EPA Method TO-15, and total volatile petroleum hydrocarbons by EPA Method TO-15. Samples were collected prior to, and during the first and second days of biosparging operations. Sample results are listed in Appendix F. The data quality assessment for the CAA-6 data is presented in Appendix G.

4.0 Waste Management

Waste samples were collected as required by EPA Publication SW-846. All sample results were analyzed and reviewed by the Shaw Transportation and Disposal (T&D) Coordinator to determine the applicability of the Department of Toxic Substances Control, California Hazardous Waste Control Law, Resource Conservation and Recovery Act, and Department of Transportation Hazardous Materials Transportation Act regulations. Waste streams were subsequently profiled and documentation was submitted to the NFECSW for review and signature certification. Upon completion of the generator waste profiling approval, waste profile documents were sent to the T&D subcontractors for review and approval.

In the fall of 2003 the horizontal DVE treatment system was dismantled and residual sludge in the weir and product separator tanks was sampled for off-site disposal. The sludge was characterized as non-hazardous waste and transported off-site on January 29, 2004 under waste manifest 15669. Soil cuttings from the July 19 through 22, 2004 well installations were also sampled and characterized as non-hazardous waste. The soil cuttings transported off-site under waste manifest 15692 on September 2, 2004. Both waste manifests are provided in Appendix H.

5.0 References

IT Corporation, 2001, *Final Work Plan, Fuel Remediation Measures, IR Site 7 and Parcel 37, Alameda Point, Alameda, California,* August 1.

IT Corporation, 2003, *Draft Pilot Test Report and Progress Update, Fuel Remediation Measures, Parcel 37 and Site 7, Alameda Point, Alameda, California,* January 3.

Shaw Environmental, Inc., 2004a, *Final Field Activity Summary Report, Alameda Point, Alameda, California,* June 14.

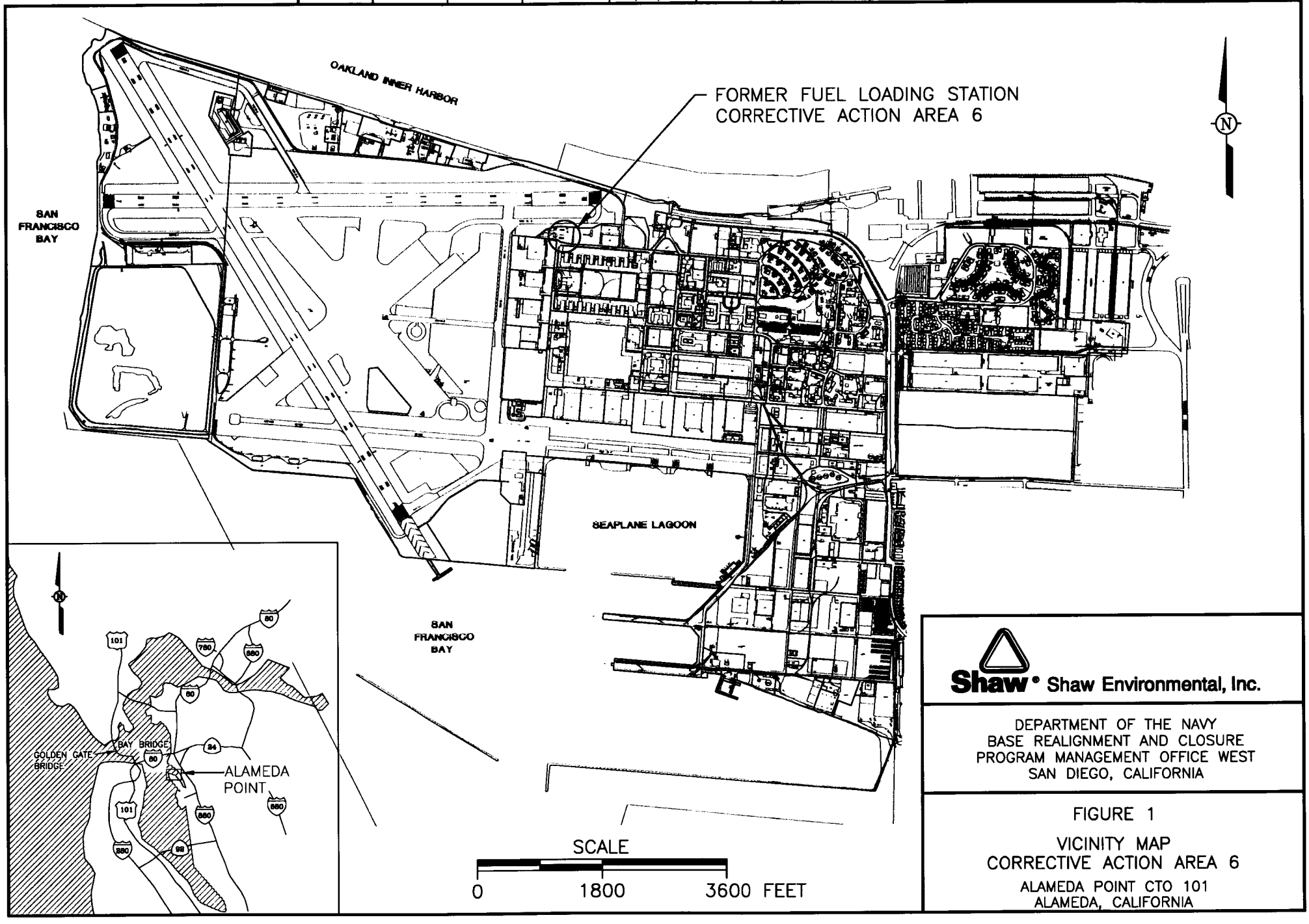
Shaw Environmental, Inc., 2004b, *Final Work Plan Addendum and SAP Addendum, Supplemental Corrective Action Area 6, Area Parcel 37, Alameda Point, Alameda, California,* August 6.

U.S. Army Corps of Engineers, 2004, *Corpscon 6.0.1 ™,* Engineering Research and Development Center, Topographic Engineering Center, Alexandria, Virginia.

U.S. Department of the Navy, 2001, *Preliminary Remediation Criteria and Closure Strategy for Petroleum-Contaminated Sites at Alameda Point, Alameda, California*, May 16

Figures

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER
---	ALA1BASE	CONC	SJZ	11/21/06	JP	11/21/06	JM	11/21/06	843778-A165



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DEPARTMENT OF THE NAVY
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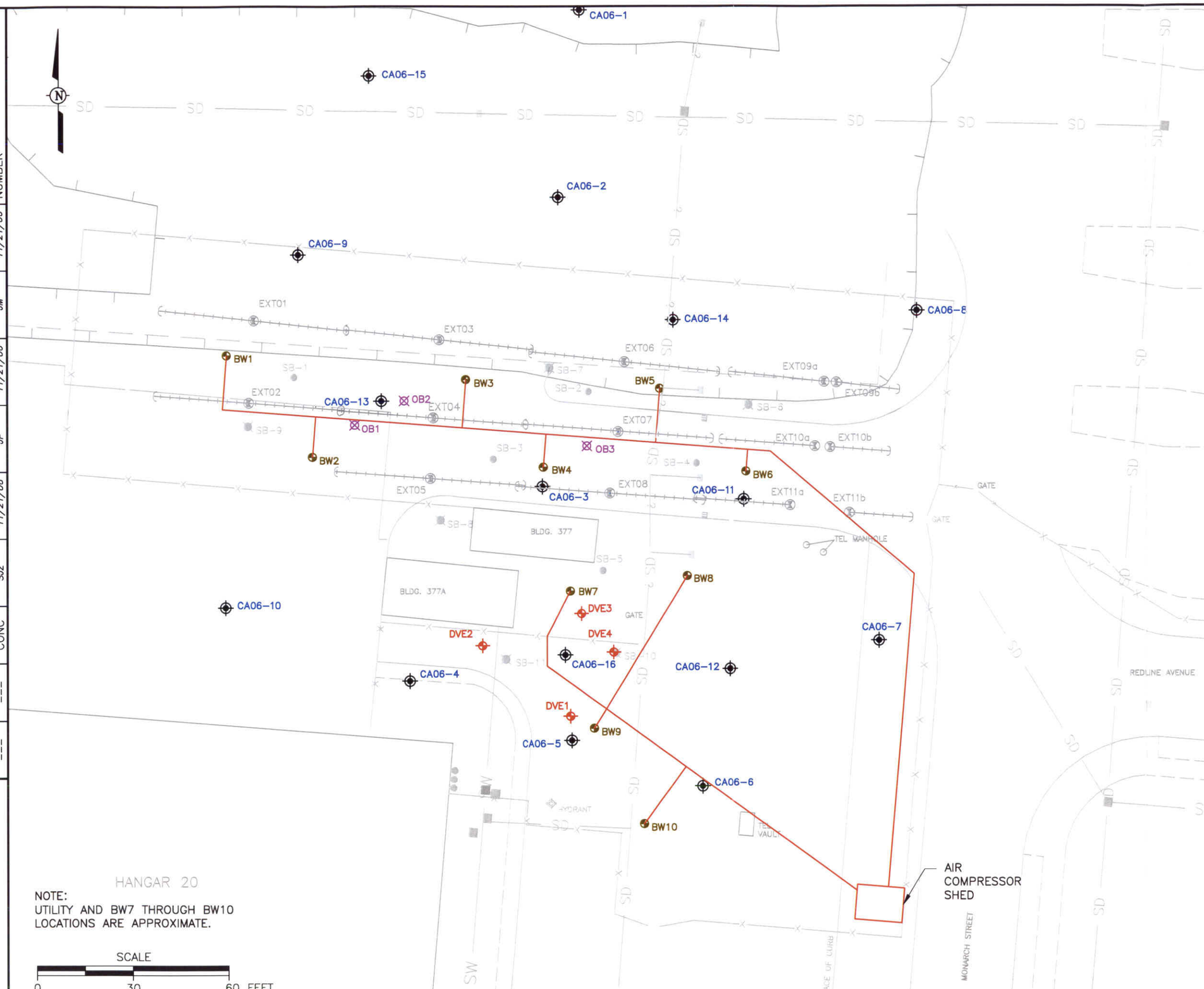
PROGRAM MANAGEMENT OFFICE WEST
SAN DIEGO, CALIFORNIA

FIGURE 1

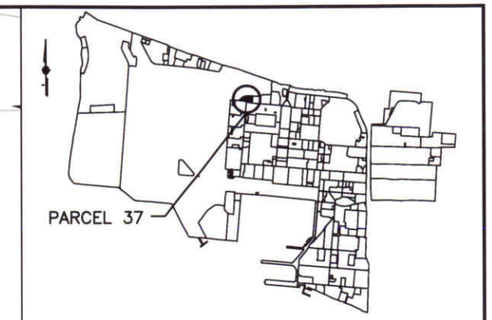
VICINITY MAP
CORRECTIVE ACTION AREA 6

ALAMEDA POINT CTO 101
ALAMEDA, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	CONC	SJZ 11/21/06	JP 11/21/06	JM 11/21/06	843778-B264



NOTE:
UTILITY AND BW7 THROUGH BW10 LOCATIONS ARE APPROXIMATE.



LEGEND

- PIEZOMETER
- HORIZONTAL EXTRACTION WELL SUMP
- HORIZONTAL EXTRACTION WELL
- SOIL BORING/SOIL VAPOR PROBE LOCATION
- DVE WELL
- BIOSPARGING WELL
- OBSERVATION WELL
- SOIL BORING
- LIMITS OF FORMER EXCAVATION
- FENCE
- HYDRANT
- POWER POLE
- IRRIGATION
- SW — SANITARY SEWER LINE
- FORMER JET FUEL PIPELINE
- SD — STORM DRAIN LINE
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- CATCH BASIN
- INDUSTRIAL WASTE MANHOLE
- BIOSPARGE PROCESS PIPING

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FIGURE 2

VERTICAL DVE/BIOSPARGING SYSTEM
CORRECTIVE ACTION AREA 6

ALAMEDA POINT
ALAMEDA, CALIFORNIA

Appendix A
Photo Log

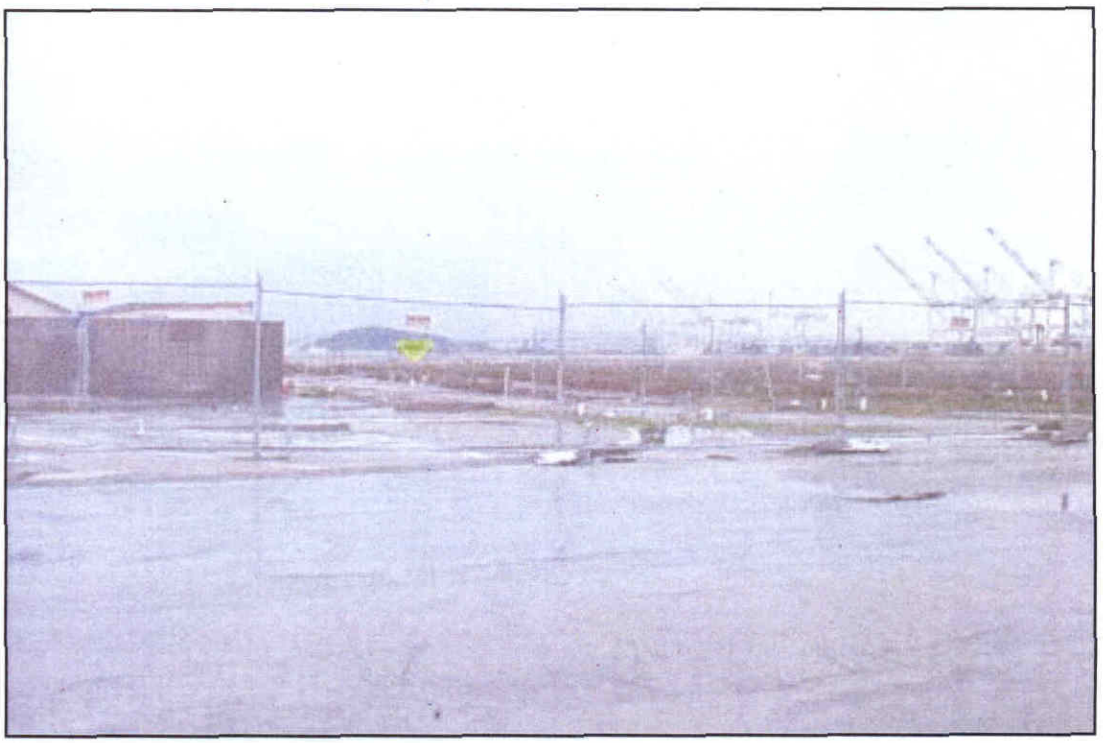


Photo No. 1: CAA-6 area north of Building 377, looking west-northwest (2006).

Photo No. 2: Sparge well wellhead assembly showing pressure gauge and sample port.

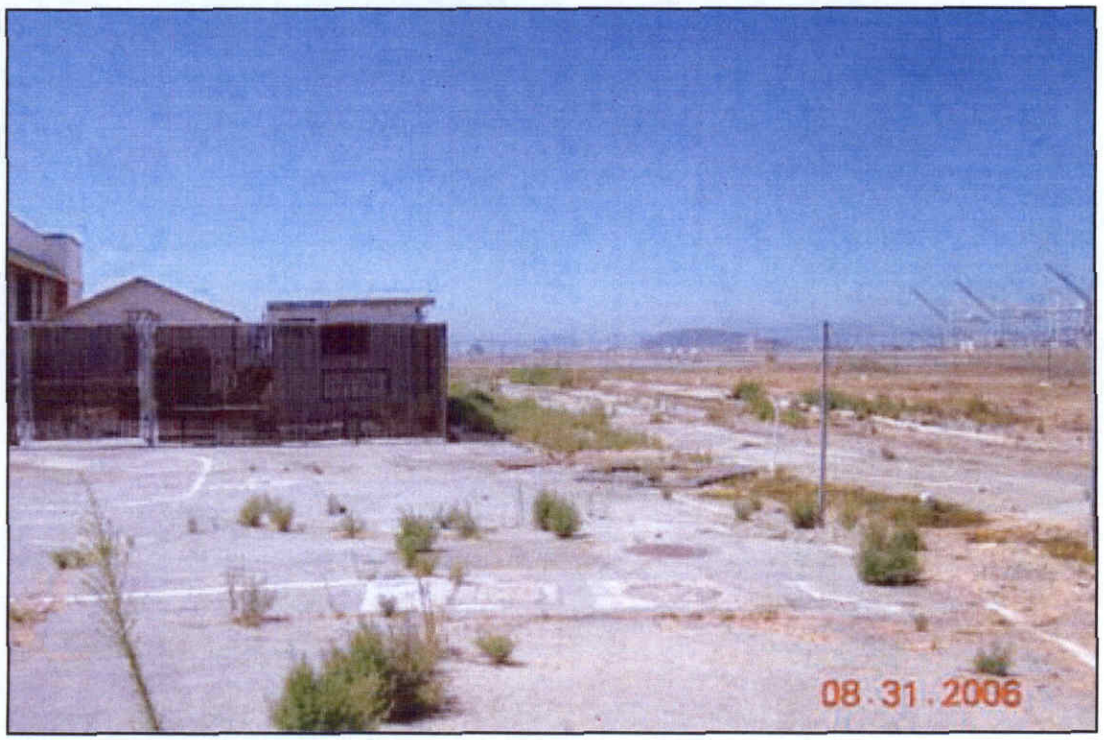


Photo No. 3: Site inside fence looking west with Building 377 inside fenced compound (left center - August 2006)

Photo No. 4: Site inside fence looking southwest toward Building 20, Building 377 in center (August 2006).

Photo No. 5: Site looking east between alignments of EXT-01 and BW-1, Building 377 at right (August 2006).

Appendix B
Well Installation

Attachment 1
Borehole Logs and Well Completion Diagrams

BORING NO. 101-CA06-DVE-1

COORDINATES: N. –
E. –

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/19/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/19/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 15 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0					asph		ASPHALT SURFACE – Hand Augered to 5' (3 holes) 0.25'
1	dmp			VL-NPO; 4" Dia. Blank PVC Casing	ml/gm		GRAVELLY SILT WITH SAND – Dark yellowish brown (10YR 4/4), 30–35% gravel (pea to 1.25"), 25% sand (fine to very coarse/dominantly coarse and very coarse), 40–45% silt, damp, very light to no product odor.
2	dmp		212	VLPO; Cement Grout	sp		2.0' POORLY GRADED SAND – Light olive brown (2.5Y 5/4), loose, fine grained, trace pea gravel, rare 1" siltstone/sandy siltstone, damp, very light product odor.
3	wet		716	M-SPO; Bentonite Chips			At 3.0': POORLY GRADED SAND – Very dark greenish gray (GLEY 3/5GY), loose, fine grained, wet, moderate to strong product odor.
4	wet		429	VSPO			At 4.0': GLEY1 (3/5GY), wet, very strong product odor.
5	vwet		310	SPO			At 5.0': Mottled with yellowish – brown silt,, no apparent product staining, very wet, strong product odor.
6	wet		367	VSPO	sp		At 6.0': Very dark greenish gray (GLEY1 3/10Y), 20–25% black mottling, loose, fine grained, wet, very strong product odor; trace fines (increased cohesiveness).
7	wet		203				
8	wet		179	L-MPO; Sand #2/12			At 8.0': Increased cohesion (fines).
9	wet		202				
10	sat				cl		10.0' Quantity of clay unknown. *
11	sat		148	VL-NPO	sp		11.0' POORLY GRADED SAND; dark greenish gray (GLEY1 4/5GY), loose, fine grained, saturated (soupy), possible light sheen.
12	sat		136	LPO; 4" Dia. PVC Screen w/ 0.010" Slots			At 12.0': POORLY GRADED SAND WITH CLAY – Very dark greenish gray (GLEY1 3/10Y), fine sand, 10–15% clay, trace pebbles, saturated, light product odor.
13	wet		58	LPO (CLAY-AUGER SMPL)	sp		Lithology below 10 ft. is interpreted as interbedded clay with thin sands. When pulling augers from hole, clays were found from approximately 10–15 ft. Clay is very dark greenish gray (GLEY1 3/10Y), soft, plastic, silty in part, wet, light product odor.
14							TOTAL DEPTH OF BORING IS 15.0 FEET
15	wet			LPO; Bottom Cap			15.0'
16							
17							

Circulate out ~12' (?), in attempt to keep clay smear to minimum in borehole.

*Note: Augers were checked as they were pulled from the hole. Clays noted from 10–15 ft. on augers.

Grout = 0'–3'
Bentonite Chips (Hydrated) = 3'–4'
2/12 Sand: 4'–15'
4-inch well casing, Schedule 40 PVC = 0'–15'
Screen = 4.5'–15.5'
0.010-inch slots = 5'–14.0'
T.D. Well = 14.5'
T.D. Hole = 15'

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 10" Augers with 12" bit
SAMPLING METHOD : Surface Cuttings
PROJECT : Alameda Point–Site 4C, CTO–101
LOCATION : 8 ft North of well 5, ENE of pine tree
PROJECT NO. : 843778–06020400

Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. 843778-A60
DATE	9/10/04	APPROVED BY		

BORING NO. 101-CA06-DVE-3

COORDINATES: N. –
E. –

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/19/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/19/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 15 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0					asph		ASPHALT SURFACE – Hand Augered to 5'. 0.25'
					ml		GRAVELLY SILT WITH SAND – Dark yellowish brown (10YR 4/4), 10% well graded sand, 30% gravel (<1"), damp, very light product odor. 1.5'
1	dmp			VLPO			
				4" Dia. Blank PVC Casing			
2	sli mst			VL-NPO NPO-2'	sp		POORLY GRADED SAND – (10YR 5/4), loose, fine grained, damp/ slightly moist, very light to no pruduct odor. At 2.0': Trace gravel <1/4", slightly moist, no product odor. 2.5'
				Cement Grout			
3	mst			VSPO	sp		At 2.5': 30% dark yellowish brown (10YR 4/4) mottling within (70%), greenish gray (GLEY1 5/10Y), loose, fine grained, iron oxidation, staining (mottling/spotting), moist, moderate to strong product odor. At 3.0': 25–30% CLAY "rip ups", moist, trace yellowish brown. Note: Trace bright green color.
				Bentonite Chips			
4	sat						4.0'
	sat			MPO	sp		At 4': Very dark greenish (GLEY1 3/10Y), fine grained, saturated, moderate product odor.
5	sat		325	MPO			At 5.0': No "fines". Very dark greenish gray (GLEY1 3/10Y), loose, fine grained, saturated, moderate product odor.
6							
7			140	L-MPO	sp		At 7.0': Saturated, light to moderate product odor.
8	sat		140				8.0'
				Sand #2/12	sc/ cl		(CLAYEY SAND ~8' (Auger). 8.75'
9			64.2	LPO	sp		POORLY GRADED SAND – Very dark greenish gray (GLEY1 3/10Y), loose, fine grained, saturated, light product odor.
10			51.3	L-MPO			10.0'
11	sat			4" Dia. PVC Screen w/ 0.010" Slots	cl/ sc		At 10.0': Trace white shells (~1/2 to 1 1/2"), becomes "thicker" (evidence of increasing clay), trace pea gravel. light to moderate product odor.* (Interpreted lithology based on auger findings).*
12	sat		40.1	LPO-MPO			12.0'
13	sat		45.4	LMPO	sp		POORLY GRADED SAND – 70–80% fine sand (?), 20–30% clays (?), saturated, light to moderate product odor.
14	sat		48	LPO			At 14.0': POORLY GRADED SAND WITH CLAY – loose, fine grained sand. Saturated, light to moderate product odor. 14.25'
				Bottom Cap	sc		Bit sample (15'): CLAY WITH SAND – Greenish black, loose, fine grained ~50% sand/50% clay, plastic, wet, light product odor. 15.0'
15							TOTAL DEPTH OF BORING IS 15.0 FEET
16							Grout = 0'–3' Bentonite Chips (Hydrated) = 3'–4' 2/12 Sand: 4'–15' 4-Inch well casing, Schedule 40 PVC = 0'–14.5' Screen = 4.5'–14.5' 0.010-inch slots = 5'–14.0' T.D. Well = 14.5' T.D. Hole = 15'
17							

Note: PID readings (>2K) in upper section may result from water vapor inside heated head-space bags.

*Inspection of augers shows clayey sand ~8'.
Thick clays at ~10': plastic, soft.
From ~10 to 15' – Clays with lesser sands: greenish black, soft, plastic, wet, light product odor.

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 10" Augers with 12" bit
SAMPLING METHOD : Surface Cuttings
PROJECT : Alameda Point-Site 4C, CTO-101
LOCATION : East of Building 377a
PROJECT NO. : 843778-06020400

Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778-A62
DATE	08/04/04	APPROVED BY		

BORING NO. 101-CA06-DVE-4

COORDINATES: N. -
E. -

FIELD GEOLOGIST Gorrick Anderson — DATE BEGAN 07/19/04
CHECKED BY Gorrick Anderson — DATE FINISHED 07/19/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 15 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0					asph		ASPHALT SURFACE – Hand Auger to 5'. (3 holes) 0.25'
					gm		SILTY GRAVEL (8 inches). 0.75'
1	dmp			4" Dia. Blank PVC Casing	sp		POORLY GRADED SAND – Dark greenish gray (GLEY1 4/10Y), loose, fine grained, damp, trace pea gravel (≤ 1/4"), strong product odor.
2			732	SPO; Cement Grout			
3	wet			SPO; Bentonite Chips			At 3.0': Dark greenish gray (GLEY1 3/10Y), loose, fine grained, wet, strong product odor.
4	wet			SPO			At 4.0': (GLEY1 3/10Y), loose, fine grained, wet, strong product odor.
5	wet			SPO	sp		At 5.0': (3/5GY), loose, fine grained, wet, strong product odor.
6							
7	wet			L-MPO			At 7.0': Loose, fine grained, wet.
8				Sand #2/12			
9	wet			LPO	cl		9.0' CLAY – Dark greenish gray, plastic, very soft, wet, light product odor.
10	sat			L-MPO			10.0' POORLY GRADED SAND – Very dark greenish gray (GLEY1 3/10Y), loose, fine grained, trace pea gravel, saturated.
11	wet/sat			4" Dia. PVC Screen w/ 0.010" Slots			
12			702	LPO-MPO	sp		At 12': Very dark greenish gray (GLEY1 3/10Y), very loose, fine grained.
13				LMPO			
14	wet/sat						PID levels in upper hole appear high; may be reading water vapor in heated head-space bags. Readings of >2k not shown.
15				Bottom Cap			15.0' TOTAL DEPTH OF BORING IS 15.0 FEET
16							Grout = 0'-3' Bentonite Chips (Hydrated) = 3'-4' 2/12 Sand: 4'-15' 4-inch well casing, Schedule 40 PVC = 0'-14.5' Screen = 4.5'-14.5' 0.010-inch slots = 5'-14.0' T.D. Well = 14.5' T.D. Hole = 15'
17							

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 10" Augers with 12" bit
SAMPLING METHOD : Surface Cuttings
PROJECT : Alameda Point-Site 4C, CTO-101
LOCATION : Southeast corner of Bldg. 377 outside, south of wood slat fence

PROJECT NO. : 843778-06020400

Shaw™
Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778-A63
DATE	9/10/04	APPROVED BY		

BORING NO. 101-CA06-DVE2

COORDINATES: N. – _____
E. – _____

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/20/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/20/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 15 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0					fill		SOIL SURFACE – Hand Augered to 5'. 0.25'
					sp		POORLY GRADED SAND – Brown (10YR 4/3), loose, fine grained, damp, light product odor, trace friable sandstone (5–10%).
1	dmp		1584	LPO			
				4" Dia. Blank PVC Casing			
2	dmp		1182	VLPO			At 2.0': Dark yellowish brown (10YR 4/6), damp, very light product odor.
				Cement Grout			
3	dmp		663	NPO			At 3.0': Sandstone clasts drop out, trace gravel, damp, no product odor.
				Bentonite Chips			
4					sp		
	wet			M–SPO			At 4.5': POORLY GRADED SAND – Dark greenish gray (GLEY1 4/10Y), fine grained sand, loose, wet, moderate to strong product odor.
5			1235				
			1449				
6	wet		767	SPO			At 6.0': POORLY GRADED SAND – Dark grayish brown (2.5Y 4/2), abt wood (root?) fibers, trace gravel (<1"), wet, strong product odor, possible light product sheen.
7	sat		669	M–SPO			At 7.0': POORLY GRADED SAND – Olive gray (5Y 4/2), loose, fine grained sand, saturated (soupy), moderate to strong product odor.
8	sat		609	SPO			8.0'
				Sand #2/12	cl		Interbedded thin sands within thicker clay unit (interpreted) below 8 feet. *
9			476		sp		POORLY GRADED SAND – Dark olive gray, sand 80–85%, clays 10–15%, light product sheen throughout, saturated, strong product odor.
10	sat		360	SPO			10.0'
					cl		Interpreted clay based on increase of dissolved clays and augers inspection. *
11	sat		395	SPO			11.0'
					ml		SANDY SILT (and CLAY mixture) – Dark olive gray (5Y 3/2), fine sand (30%), silt (estd. 40%), 30% dissolved clay, noticeable increase of clay ("thicker") light sheen throughtout sample, saturated, strong product odor. 12.0'
12	sat		480	SPO 4" Dia. PVC Screen w/ 0.010" Slots	sp		POORLY GRADED SAND; dark olive gray (5Y 3/2), fine grained, silty, root fibers, trace shell fragments (to 3mm), wet (soupy).
13							13.0'
							CLAY *
14					cl		
15	wet			Bottom Cap			Clay (bit sample) at 15', very dark greenish gray (GLEY1 3/10), plastic, soft, wet, light product odor, slight sulfide (?) odor. 15.0'
							TOTAL DEPTH OF BORING IS 15.0 FEET
16				* When pulling auger from hole, dark greenish gray clays were noted on the augers at about 8ft.; Thick clays at ~10ft. to T.D.			Grout = 0'–3' Bentonite Chips (Hydrated) = 3'–4' 2/12 Sand: 4'–15' 4-Inch well casing, Schedule 40 PVC = 0'–14.5' Screen = 4.5'–14.5' 0.010-inch slots = 5'–14.0' T.D. Well = 14.5' T.D. Hole = 15'
17							

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 10" Augers with 12" bit
SAMPLING METHOD : Split Spoon
PROJECT : Alameda Point-Site 4C, CTO-101
LOCATION :
PROJECT NO. : 843778-06020400

Shaw™
Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778-A61
DATE	9/10/04	APPROVED BY		

BORING NO.101-CA06-OB1

COORDINATES: N. –
E. –

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/20/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/20/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 15 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0				4" Dia. Blank PVC Casing	Conc		CONCRETE CORED: 16" dia., Hand Augered to 5.0'.
1	dmp		1480	VLPO			1.0'
					sp		POORLY GRADED SAND with GRAVEL; brown (10YR 4/3), loose, fine grained sand, trace-10% gravel (to 2.5").
2	dmp		697	LPO Cement Grout			
	dmp			LPO			At 2.5': brown (10YR 4/3), loose, fine grained sand, damp, light product odor.
3	dmp		632	LPO			At 3.0': trace gravel, damp, light product odor.
	mst		354	VLPO Bentonite Chips			3.5'
					ml		SILT; very dark greenish gray (GLEY1 3/10Y), moist, very light product odor.
4	mst		611	MPO			4.0'
	mst						POORLY GRADED SAND; dark grayish brown (2.5Y 4/2), loose, fine grained sand, moist, moderate product odor.
5	wet		692	SPO			5.0'
				Sand #2/12	sp		POORLY GRADED SAND; very dark grayish brown (2.5Y 4/2), loose, fine grained sand, wet, strong product odor.
6	wet		424				
7	wet		420	MPO			At 7.0': Very dark greenish gray (GLEY1 3/10Y), loose, fine grained, wet, moderate product odor.
					sp		
8	sat	6	437				8.0'
					cl		CLAY First sign of thin clays at ~8' from augers.
				LPO			8.5'
		6					POORLY GRADED SAND – Loose, fine grained, saturated (soupy).
9			316				Below 8", sand solutions show no clays (or thickening).
		7					
10	sat	9	423	M-SPO 4" Dia. PVC Screen w/ 0.010" Slots			
		2					
11	sat	3	161	MPO			At 11.0': very dark grayish brown (2.5Y 3/2), loose, fine grained, soupy, saturated, moderate product odor.
		3			sp		
					sp		
12	sat	3	260	LPO			At 12.0': soupy, light product odor
		5					
13	sat	6	113	LPO			At 13.0': soupy, light product odor
		7					
				Bottom Cap			
14	sat	7	177	VLPO			At 14.0': soupy, light product odor
							At 15.0': BIT SAMPLE – Clayey sand and sandy clay with greenish black mottling, very soft, plasitic, wet, light product odor.
15			761	LPO			15.0'
							TOTAL DEPTH OF BORING IS 15.0 FEET
16							Grout = 0'-3.0' Bentonite Chips (Hydrated) = 3.0'-4.0' 2/12 Sand: 4.0'-15.0' 4-inch well blank casing, Schedule 40 PVC = Screen = 4.5'-14.5' 0.010-inch slots = 13.0'-14.0' T.D. Well = 14.4' T.D. Hole = 15.0'
17							

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 10" Augers with 12" bit
SAMPLING METHOD : Surface Cuttings
PROJECT : Alameda Point NAS-Site 4C, CTO-101
LOCATION : North-Northeast of northeast corner of Bldg. 377A
PROJECT NO. : 843778-06020400

Shaw E & I, Inc.

DRAWN BY	SCHAEFFER	CHECKED BY		DRAWING NO. : 843778-A70
DATE	8/13/04	APPROVED BY		

BORING NO.101-CA06-OB2

COORDINATES: N. –
E. –

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/20/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/20/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 15 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0				4" Casing Set above Surface			
				4" Dia. Blank PVC Casing	Conc		CONCRETE – Cored: 16" dia. Hand Augered to 5.0'. 1.0'
1	dmp		53.3	NPO	sw		GRAVELLY SILTY SAND – Dark yellowish brown (10YR 4/4), loose, 55% well graded sand, 20% gravel (max. 2"), 25% silt, damp, no product odor. 2.0'
2	sli mst		495	MPO Cement Grout			POORLY GRADED SAND – Dark grayish brown (2.5Y 4/2), loose, fine grained, slightly moist, moderate product odor.
3	sli mst		682	MPO Bentonite Chips	sp		At 3.0': slightly moist, moderate product odor.
4	mst		369	M-SPO			At 4.0': Trace gravel and pods of "fines". 4.0' POORLY GRADED SAND – Dark gray (2.5Y 4/1), loose, fine grained, moist, moderate to strong product odor.
5	mst		698	M-SPO Sand #2/12	sp		
6							
7	wet		696	MPO			At 7.0': Dark greenish gray (GLEY1 4/10Y), wet.
	wet			SPO			At 7.6': POORLY GRADED SAND – Dark greenish gray (GLEY1 4/10Y), increased cohesion due to dispersed clays, very wet, strong product odor.
8	wet		305	SPO			At 8.0': cuttings become more fluid, fine grained sand with dispersed clays. Note: augers with first signs of clay at 8.0'. Auger clay: very dark greenish gray (GLEY1 3/5GY), soft, plastic, very moist to wet, visible sheen throughout, strong product odor.
	wet		387	SPO			
9	wet		369	SPO	sp		At 8.5': POORLY GRADED SAND – (increased sand content, less fluid), very wet, strong product odor.
10	sat			4" Dia. PVC Screen w/ 0.010" Slots			At 10.0': Sand turns fluid, increase in dark greenish gray clay pods and disseminated clays indicate presence of clays, amount of clay unknown. Some clay, bedding interpreted. Actual amount unknown.
11	sat		158	L-MPO	cl/ sp		
12	sat		379	L-MPO	sp		At 12.0': POORLY GRADED SAND – Fine grained, saturated/soupy, moderate to strong product odor.
13					cl		
				Bottom Cap	sp		
14	wet			LPO	cl		Bit Sample (15.0'), dominantly clay, very dark greenish gray, sandy in part, apparent light sheen (?), very wet, light to moderate product odor.
15							TOTAL DEPTH OF BORING IS 15.0 FEET
16							Grout = 0'-3.0' Bentonite Chips (Hydrated) = 3.0'-4.0' 2/12 Sand: 4.0'-15.0' 4-inch well casing, Schedule 40 PVC = Surface to 14.5' Screen = 4.5'-14.5' 0.010-inch slots = 5.0'-14.0' T.D. Well = 14.5' T.D. Hole = 15.0'
17							

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 10" Augers with 12" bit
SAMPLING METHOD : Surface Cuttings
PROJECT : Alameda Point NAS-Site 4C, CTO-101
LOCATION :
PROJECT NO. : 843778-06020400

Shaw™
Shaw E & I, Inc.

DRAWN BY	SCHAEFFER	CHECKED BY		DRAWING NO. : 843778-A71
DATE	8/13/04	APPROVED BY		

BORING NO.101-CA06-OB3

COORDINATES: N. –
E. –

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/20/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/20/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 10 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0					asph		ASPHALT SURFACE. Hand augered to 5'. 0.5'
1	sli dmp		1800	NPO	gm		SANDY SILTY GRAVEL; dark brown (7.5YR 3/2), 40% pea gravel to 1", 30–35% well graded sand, 25–30% silt, damp, no product odor. 2.0'
2	sli dmp		435	NPO	ml		GRAVELLY SANDY SILT – Dark yellowish brown (10YR 4/6), loose, slightly damp, no product odor. 3.0'
3	dmp		342	L–MPO	sp		POORLY GRADED SAND – Dark greenish gray (GLEY1 4/10Y) with 50–60% light mottled iron oxidation staining, damp, light product odor. 3.3'
			275	M–SPO	ml		
4	mst		466	SPO	sp		SILT – Greenish gray (GLEY1 5/10Y), loose, damp, light to moderate product odor. 3.5'
	vmst/ wet		548	M–SPO			POORLY GRADED SAND – Dark grayish brown (2.5Y 4/2), loose, fine grained, trace spotty iron oxidation staining, moist, moderate to strong product odor.
5	wet		348	MPO			At 4.0': Broken, white shell fragments to max 1 1/2" thick; trace fines, wet/very moist, strong product odor.
				MPO			At 5.0': POORLY GRADED SAND – Dark grayish brown, fine grained, loose, wet, moderate product odor; bi-valve fragments to 1". SOUPY BELOW 5' to T.D.
6	sat		86	M–SPO	sp		At 6.0': POORLY GRADED SAND (w/fines) – Dark greenish gray (GLEY1 4/10Y), "soupy". Fine grained sand; light sheen apparent, moderate to strong product odor.
7	sat		102	L–MPO			At 7.0': No apparent clays, light to moderate product odor.
8	sat		91	LPO	sp		At 8.0': TRACE CLAY w/in soupy fine sands, saturated, light product odor. 9.0'
9	sat		78.7	L–NPO	sp		Thinner, less sands, light sheen, saturated, no product odor to light product odor. 10.0'
10	sat		131	LPO	cl		CLAY WITH SAND (?)– Fine grained, soupy, trace shell fragments, saturated, light product odor, apparent trace sheen. Note: Below 10 ft.: Interpreted thin fine grained sand stringers interbedded with clays. Mud thickens indicating clays. Actual amount of clay is unknown. 11.0'
11			56.7	VL–LPO	sp		Dark greenish gray, fine grained soupy sand, trace pods and disseminated clays, very light to light product odor.
12			40.2	NPO			Heavier mud at 12.0', no clay "pods", no product odor.
13			61.9	NPO			Heavier mud at 13.0', no clay "pods", no product odor. 13.5'
14				NPO	cl		
15	wet		47	VLPO			Bit Sample (15 ft.) – CLAY: very dark greenish gray, soft, plastic, wet, very light product odor. 15.0'
16							
17							

WELL CONSTRUCTION:
- 4" Dia. Blank PVC Casing
- Cement Grout
- Bentonite Chips
- Sand #2/12
- 4" Dia. PVC Screen w/ 0.010" Slots
- Bottom Cap

TOTAL DEPTH OF BORING IS 15.0 FEET

Grout = 0–3'
Bentonite Chips (Hydrated) = 3'–4'
2/12 Sand: 4'–15'
4-Inch well casing, Schedule 40 PVC = 0'–15'
Screen = 4.5'–14.5'
0.010-inch slots = 5.0'–14'
T.D. Well = 14.5'
T.D. Hole = 15.0'
Note: Below 10 ft.: Interpreted thin fine grained sand stringers interbedded with clays.

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 10" Augers with 12" bit
SAMPLING METHOD : Surface Cuttings
PROJECT : Alameda Point NAS–Site 4C, CTO–101
LOCATION : –
PROJECT NO. : 843778–06020400

Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778–A72
DATE	9/16/04	APPROVED BY		

BORING NO.101-CA06-BW2

COORDINATES: N. -
E. -

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/21/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/21/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 10 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0				2" Casing Set above Ground Level	concr		CONCRETE SURFACE - Cored (12" dia.) Hand augered to 8 feet. 0.5'
1				2" Dia. Blank PVC Casing	sw		GRAVELLY SAND WITH SILT - Brown (10YR 4/3), loose, 20% pea gravel, 70% sand, 10% silt.
2				M-SPO			2.5'
3				M-SPO; Cement Grout	ml		SILT - Very dark greenish gray (GLEY1 4/1), loose, slightly moist, moderate to strong product odor. 3.5'
4	mst		1171	MPO	sp		POORLY GRADED SAND - Light olive brown (2.5Y 5/3), loose, 10% gravel <1.25", moist, moderate product odor. At 4.0': POORLY GRADED SAND - Dark gray (10YR 4/1), loose, minor iron oxide mottled staining, wet, moderate product odor.
5	wet		1443				
6	wet		703				At 5.0': Greenish Black (GLEY1 2.5/1), wet, moderate product odor. Sample becomes saturated below 5'.
7	wet		673				
8	wet		934				
9	wet						At 8.0': POORLY GRADED SAND WITH SILTY SAND MOTTLING - Greenish black (GLEY1 2.5/1), fine grained, loose, silty in part (to 40%).
10	wet	6	382	L-MPO	sp		At 8.5': POORLY GRADED SAND - Very dark greenish gray (GLEY1 3/10Y), loose, fine grained, wet, light to moderate product odor.
11		6					
12	wet	7	41.5	LPO			
13		9					
14		4	1035	L-MPO			
15	wet	5		L-MPO			At 11.0': POORLY GRADED SAND - Dark olive gray (5Y 3/2), fine grained, loose, wet, light to moderate product odor.
16		6	605	L-MPO; Bentonite Chips			
17		7		LPO; Sand #2/12	sp		At 12.0': POORLY GRADED SAND - Very dark gray (5Y 3/1), grades to olive gray (5Y 4/2) at 13.0', wet, light product odor.
	wet	5	179				
		5		LPO; 2" Dia. PVC Screen w/ 0.020" Slots			
	wet	7	47				Note: Absense of clays in the sampled section. When pulling out of the hole, thick clays were noted on the augers. Split spoon samples (with sand catcher); pushing through clays during sampling (?). 14.0'
		4		L-MPO; Bottom Cap			

Note: PID readings questionable -- may be picking up water vapor inside heated head-space bags.

TOTAL DEPTH OF BORING IS 10.0 FEET

Grout = 0'-11.5'
Bentonite Chips (Hydrated) = 11.5'-12.5'
2/12 Sand: 12.5'-14.0'
2-inch blank well casing, Schedule 40 PVC = 0'-13'
Screen = 13.0'-14.0'
0.020-inch slots = 13.0'-14.0'
T.D. Well = 14.0'
T.D. Hole = 14.0'

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger - 8" Augers
SAMPLING METHOD : Split Spoon
PROJECT : Alameda Point-Site 4C, CTO-101
LOCATION : ~30ft Northwest of Northwest Corner of Building 377
PROJECT NO. : 843778-06020400

Shaw™
Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778-A65
DATE	9/11/04	APPROVED BY		

BORING NO.101-CA06-BW3

COORDINATES: N. -
E. -

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/21/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/21/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 10 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0				2" Casing set above Ground Level			
					concr		CONCRETE SURFACE - Cored (12" dia.) Hand Augered to 6'. 1.0'
1	dmp		538	MPO	ml		SANDY SILT WITH GRAVEL - Dark brown (10YR 3/3), loose, 25% well graded gravel (to 1 1/12"), well graded sand (35-40%), 35-40% silt, damp to moist, moderate product odor. 2.0'
				2" Dia. Blank PVC Casing			
2	sli mst		706	MPO	sp		POORLY GRADED SAND - Dark grayish brown (2.5Y 4/2), trace gravel (<10%), damp, slightly moist, moderate product odor. 3.0'
				Cement Grout			
3			628		ml		SILT - Very dark greenish gray (GLEY1 3/1). 3.25'
	mst				sp		POORLY GRADED SAND - fine grained, trace gravel, moist. 3.7'
			510	L-MPO	ml		SILT - Dark greenish gray (4/10Y), very moist, light product odor. 4.0'
	vmst						
4	wet		733		sp		POORLY GRADED SAND - Very dark grayish brown (2.5Y 4/2), loose, fine grained, trace shell fragments (1-2mm), wet, strong product odor, possible product in part. (?) At 4.5': POORLY GRADED SAND - Gray/brownish gray-light weathering of very dark greenish gray (GLEY1 4/1), loose, 30% white shell fragments (to 2"), wet, strong product odor.
	wet		866				
5			1113	M-SPO			
			658				
6	wet		1202	MPO			At 6.0': 25% shells, trace 1" clay pods, wet, strong product odor. 6.5'
		5	752		sm		CLAYEY SAND - Dark greenish gray (GLEY1 4/10Y) moderately firm, fine grained sand, 10-20% silt, trace white shell fragments, wet, no product odor. 6.7'
7	wet	5	161	VLPO	sp		At 6.7': POORLY GRADED SAND - Very dark greenish gray (GLEY1 3/1), loose, fine grained, wet, very light product odor.
		6					
		7					
8	wet	4	140	VLPO			At 8.0': (GLEY1 3/1), loose, fine grained, wet, very light product odor. 8.5'
		4	104		sm		SANDY SILT - (5Y 3/1), very dark gray, loose, fine grained, wet, no to light product odor. 9.0'
9	wet	6		LPO	sp		POORLY GRADED SAND - Greenish black (GLEY1 2.5/1), fine grained, loose, light beige to white shell fragments to 1", wet, light to moderate product odor.
		8	428	L-MPO			
10		4					
		5	332				
11		6		VLPO	sp		At 11.0': Dark greenish brown (2.5Y 4/2), fine grained, wet, very light product odor.
		7		Bentonite Chips			
12	wet	5	764	MPO Sand #2/12			At 12.0': POORLY GRADED SAND WITH SILT - fine grained, 10-20% silt, trace clay (?), trace shells, wet, moderate product odor.
		6					
13		7	110	NPO			At 13.0': POORLY GRADED SAND - Dark olive gray (5Y 3/2), loose, fine grained, wet, no product odor.
		7		2" Dia. PVC Screen w/ 0.020" Slots			
14							14.0'
15				Bottom Cap			TOTAL DEPTH OF BORING IS 14.0 FEET
16				Note: Elevated PID levels at upper hole may be due to water vapor in heated head-space bags.			Grout = 0'-11.5' Bentonite Chips (Hydrated) = 11.5'-12.5' 2/12 Sand: 12.5'-14.0' 2-inch blank well casing, Schedule 40 PVC = 0-13.0' Screen = 13.0'-14.0' 0.020-inch slots = 13.0'-14.0' T.D. Well = 14.0' T.D. Hole = 14.0'
17							

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger - 8" Augers
SAMPLING METHOD : Split Spoon
PROJECT : Alameda Point NAS-Site 4C, CTO-101
LOCATION : -
PROJECT NO. : 843778-06020400

Shaw™
Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778-A66
DATE	08/11/04	APPROVED BY		

BORING NO.101-CA06-BW4

COORDINATES: N. -
E. -

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/21/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/21/04
APPROVED BY — SURFACE ELEV.
TOTAL DEPTH 10 ft. — CASING ELEV.

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	DESCRIPTION
0					asph	ASPHALT SURFACE - Cookie cut ~ 1ft (2 layers). Hand Augered to ~8ft. 1.0'
1	mst			2" Dia. Blank PVC Casing	gm	SILTY GRAVEL WITH SAND 1.5'
2	mst			MPO; Cement M-SPO Grout	sp	POORLY GRADED SAND - Dark grayish brown (2.5Y 4/2), loose, dominantly fine grained sand, 20-30% medium to vey coarse sand, 20-30% pea to 3/4" gravel, moist, moderate product odor. At 2.0': Dark grayish brown (2.5Y 4/2), loose, 10-15% dark greenish gray mottling, fine grained, moist, moderate to strong product odor. 2.5'
3			1340		ml	SILT - Very dark greenish gray (GLEY 2/5GY), loose, slightly moist, light to moderate product odor. 3.5'
4	wet		987	L-MPO; LPO	sp	POORLY GRADED SAND - Dark grayish brown (2.5Y 4/2), loose, fine grained, trace clay pods, wet, light product odor. POORLY GRADED SAND - Very dark greenish gray (GLEY1 3/10Y), loose, fine grained, white shell fragments (to 1"), wet, light to moderate product odor. Clay pod "rip-ups" ~4%.
			524	LPO-MPO		
5	wet		240	L-MPO		At 5.0': Trace gravel and shells, very wet, light to moderate product odor.
			408	LPO	sp	At 5.5': No shells, pods or other; wet, light product odor.
6	wet		319	LPO		At 6.0': POORLY GRADED SAND WITH SILT - Very dark greenish gray (GLEY1 3/10Y), loose, ~15% silt, fine grained, saturated, light product odor.
			303	LPO		
7	wet		357	VLPO		At 7.0': SILT decreases to ~10%, broken shell fragments and trace gravel.
8	wet	6		VLPO	sp	
		6				
9	wet					9.0'
		7			sm	SILTY SAND - Dark greenish gray (GLEY1 4/5GY), loose, fine sand, wet, light product odor 9.5'
				LPO	ml	SILT - Very dark greenish gray (GLEY1 3/10Y), loose, wet, sandy in part, light product odor. 10.0'
10	wet	9	319	L-MPO	sp	POORLY GRADED SAND - Dark greenish gray (GLEY1 3/10Y), loose, fine grained, wet, light to moderate product odor.
		2				
11	wet	3	51			11.0'
		3		Bentonite Chips	sm/sp	SILTY SAND/POORLY GRADED SAND WITH SILT STRINGERS - Wet, very light product odor.
12	wet	3		VLPO; Sand #2/12		12.0'
		5	186		sp	At 12.0': POORLY GRADED SAND - Trace shells, gravel; fine grained, wet, no product odor.
13		6				
		7		2" Dia. PVC Screen w/ 0.020" Slots		
14	wet	7	29	Bottom Cap; VLPO		At 14.0': POORLY GRADED SAND WITH SILT - Very dark greenish gray (GLEY1 3/10Y), 20% silt. 14.3'
					sm	CLAYEY SILT WITH SAND - Olive Gray (5Y 4/2), 40% clay, 40% silt, 20% fine sand, wet, very light product odor. SILTY SAND - Trace clay, wet, very light product odor. 14.5'
15						TOTAL DEPTH OF BORING IS 14.5 FEET
16						Grout = 0'-11.5' Bentonite Chips (Hydrated) = 11.5'-12.5' 2/12 Sand: 12.5'-14.0' 2-inch well casing, Schedule 40 PVC = - Screen = 13.0'-14.0' 0.020-inch slots =13.0'-14.0' T.D. Well = 14.0' T.D. Hole = 14.5'
17						

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : 8" Hollow Stem Auger
SAMPLING METHOD : Split Spoon
PROJECT : Alameda Point NAS-Site 4C, CTO-101
LOCATION : North of Building 377 ~15.0'
PROJECT NO. : 843778-06020400

Shaw™
Shaw E & I, Inc.

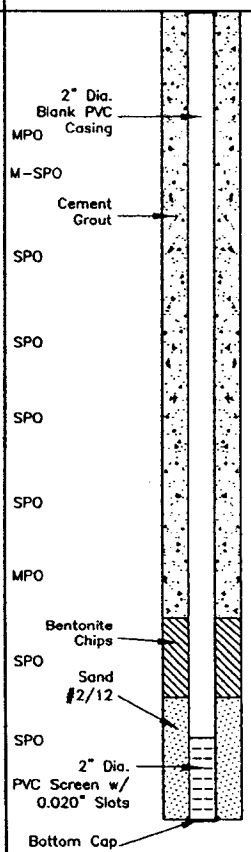
DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778-A67
DATE	08/12/04	APPROVED BY		

BORING NO.101-CA06-BW1

COORDINATES: N. -
E. -

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/22/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/22/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 10 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION
0					fill		CONCRETE SURFACE – Cored (12"). Hand Augered to 5'. 0.5'
1	mst		233	2" Dia. Blank PVC Casing; MPO	ml		GRAVELLY SILT WITH SAND – Brown (10YR 4/3), loose, fine grained to very coarse dominantly fine, 20% well graded gravel (pea to ≤2"), damp, moderate product odor. 2.0'
2	dmp		820	M-SPO; Cement Grout	sp		POORLY GRADED SAND – Dark grayish brown (2.5Y 4/2), loose, fine grained, 10% gravel (1/4 to 1.5"), damp, moderate to strong product odor. 3.0'
3	wet		1504	SPO	sw		GRAVELLY SAND WITH SILT – Very dark grayish brown (2.5Y 3/2), loose, 30% gravel, (pea-1"), well graded sand, fine-very coarse/dominantly coarse to very coarse, 20% silt, wet, strong product odor. 4.0'
4	wet			SPO	sp		POORLY GRADED SAND – Dark greenish gray (GLEY1 4/10Y), loose, fine grained, trace medium grained, trace gravel (<1"), wet, strong product odor.
5	wet			SPO			At 5.0': Dark gray (5Y 4/1), loose, fine grained, 1" pods of "fines", wet, strong product odor.
			879				
6	sat		655	SPO			At 6.0': Rare shells, wet-becomes saturated, very dark greenish gray, 1cm pods of fines, strong product odor.
7	sat		1120	MPO	sp		At 7.0': Very dark gray to very dark greenish gray (GLEY1 3/1), loose, fine grained, saturated, light beige broken shells to 3/4, moderate product odor.
8	wet/ sat	7	1950	SPO; Bentonite Chips; Sand #2/12			At 8.0': Dark greenish gray (GLE1 4/10), loose, fine grained, shells absent, rare 2" rock (subrounded), wet/saturated.
9	wet	8 10 10	620	SPO; 2" Dia. PVC Screen w/ 0.020" Slots	sp		At 9.0': Dark gray (5Y 4/1), loose, fine grained, wet, strong product odor. Note: No clays noted when pulling out of hole with augers. 10.0'
10				Bottom Cap			
11							
12							
13							
14							
15							
16							
17							



Note: PID readings maybe affected by water vapor inside heated head-space bags. Levels >2K not shown.

TOTAL DEPTH OF BORING IS 10.0 FEET

Grout = 0'-7.5'
Bentonite Chips (Hydrated) = 7.5'-8.5'
2/12 Sand: 12.5'-14.0'
2"-Inch blank well casing, Schedule 40 PVC = 0'-9'
Screen = 13.0'-14.0'
0.020-inch slots =13.0'-14.0'
T.D. Well = 10.0'
T.D. Hole = 10.0'

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 8" Augers
SAMPLING METHOD : Split Spoon
PROJECT : Alameda Point NAS-Site 4C, CTO-101
LOCATION : ~30ft Northwest of Northwest Corner of Building 377
PROJECT NO. : 843778-06020400

Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778-A64
DATE	08/11/04	APPROVED BY		

BORING NO.101-CA06-BW5

COORDINATES: N. –
E. –

FIELD GEOLOGIST Garrick Anderson — DATE BEGAN 07/22/04
CHECKED BY Garrick Anderson — DATE FINISHED 07/22/04
APPROVED BY _____ — SURFACE ELEV. _____
TOTAL DEPTH 12 ft. — CASING ELEV. _____

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	DESCRIPTION
0				Casing Set above Ground Level; 2" Dia. Blank PVC Casing		
1	dmp		147	LPO–MPO	ml	DIRT FIELD – SANDY SILT WITH GRAVEL – Dark brown (10YR 3/3), loose, dominantly, fine grained sand, minor coarser fractions (total sand ~20–30%), 60–70% silt, 10% gravel (pea–2"), loose, damp, light to moderate product odor.
2	sli mst		461	M–SPO; Cement Grout	sp	2.0' POORLY GRADED SAND WITH SILT AND GRAVEL – Dark grayish brown (2.5Y 4/2), 10–20% silt (?), 10% gravel (pea–2"), 70–80% fine sand, trace shell fragments, appar 10% product stain (?)/light brown stain on gloves, slightly moist, strong product odor.
3			348	SPO		
	wet		443	M–SPO		At 3.5': POORLY GRADED SAND WITH GRAVEL – Black (7.5YR–2.5/1), loose, 10% gravel (pea to 1"), appar. product stain mottling, wet, strong product odor, stain on gloves.
4	wet		427	SPO		At 4.0': Very dark grey (2.5YR–3/5), loose, fine grained, 15–20% gravel to 1.5", appr. Product stain on bags and gloves. Strong product odor.
			540	MPO	sp	At 4.5': POORLY GRADED SAND – Greenish black (GLEY1 2.5/10Y), loose, fine grained, trace black mottling, wet, strong product odor. Product staining and free product.
5	wet		708	SPO		5.0'
					cl	Thin clays of dark greenish gray, wet, light product odor. 5.25'
					sc/sp	Dark greenish gray. 5.75'
					cl	Dark greenish gray 6.0'
6	wet			SPO		POORLY GRADED SAND – Very dark greenish gray (GLEY1 3/5GY), loose, fine grained, wet, strong product odor.
			415	SPO	sp	
7	wet			L–MPO		7.1'
					cl	CLAY – Very dark greenish gray (GLEY1 3/1), soft, medium plasticity, wet, light to moderate product odor. 7.2'
					sp	POORLY GRADED SAND – Very dark greenish gray (GLEY1 3/1), loose fine grained, wet, light product odor.
8	wet	5	147	LPO		At 8.0': Trace clay (?), wet, light product odor.
					sp	
9	wet	7		L–NPO		9.1'
					cl	SANDY CLAY (~2") – Very dark greenish gray (GLEY1 3/1), soft moderately plastic, wet, light product odor. 9.3'
	wet	7	302	Bentonite Chips		
10	wet	6	167	NPO	sp	POORLY GRADED SAND – Greenish black (GLEY1 2.5/1), loose, fine grained, clayey in part, wet, light to no product odor. Below 10.0': No clays, no product odor.
	wet	4		NPO; Sand #2/12		10.5'
11		5			sc	CLAYEY SAND – Greenish black, 20–30% clay, loose, wet, no product odor.
						11.5'
	wet	6		NPO		POORLY GRADED SAND – loose.
12		6		2" Dia. PVC Screen w/ 0.020" Slots; Bottom Cap	sp	At 11.9': POORLY GRADED SAND WITH CLAY/CLAYEY SAND – 20–30% clay, soft, sticky, moderately plastic, wet, no product odor. 12.0'
13						
14						
15						
16				Note: Questionable PID readings below 7ft		
17						

TOTAL DEPTH OF BORING IS 12.0 FEET

Grout = 0'–9.5'
Bentonite Chips (Hydrated) = 9.5'–10.5'
2/12 Sand: 10.5'–12'
2-inch well casing, Schedule 40 PVC = 0'–11.0'
Screen = 11.0'–12.0'
0.020-inch slots = ~11.0'–12.0'
T.D. Well = 12.0'
T.D. Hole = 12.0'

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 8" Augers
SAMPLING METHOD : Split Spoon
PROJECT : Alameda Point NAS–Site 4C, CTO–101
LOCATION : –
PROJECT NO. : 843778–06020400

Shaw™
Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO : 843778–A68
DATE	08/16/04	APPROVED BY		

BORING NO. 101-CA06-BW6

COORDINATES: N. –
E. –

FIELD GEOLOGIST Garrick Anderson
CHECKED BY Garrick Anderson
APPROVED BY
TOTAL DEPTH 12 ft.

DATE BEGAN 07/22/04
DATE FINISHED 07/22/04
SURFACE ELEV.
CASING ELEV.

DEPTH IN FEET	MOISTURE	BLOW COUNTS	P.I.D.	WELL CONSTRUCTION	USCS	PROFILE	DESCRIPTION	
0					asph		ASPHALT SURFACE. Hand Augered to 5'.	0.25'
1	dmp		883	2" Dia. Blank PVC Casing	ml		GRAVELLY SILT WITH SAND – Dark reddish brown (5YR 2.5/2), loose, 35–30% gravel (pea to 1 1/2"/ dominantly 1/4–1/2", 15–20% well graded sand/dominantly fine to coarse, 50% silt, damp, no product odor.	2.0'
	dmp		230	NPO				
2	mst/ wet		584	NPO–VLPO	sp		POORLY GRADED SAND – olive brown (2.5y 4/3), loose, fine grained sand, generally even, light iron oxidation staining. trace darker "spotting". Trace gravel (pea 1/2"), wet, very light product odor.	3.0'
				Cement Grout				
3	vmst/ wet		178	MPO	cl		POORLY GRADED SAND – Dark grayish brown (2.5Y 4/2), loose, fine grained. Trace (<10%) silt, large "balls" (to 2") of silty clay/clayey silt, firm; iron oxidation at upper/lower contacts of clay laminae within sand, very moist to wet, moderate product odor. At 3.5': Very moist/wet, moderate product odor. At 4.0': POORLY GRADED SAND – Olive gray (5Y 4/2), loose, fine grained, wet/saturated, moderate to strong product odor.	6.0'
	vmst/ wet		330	MPO				
4	wet/ sat		175	M–SPO				
			135		sp			
5								
6	wet	6	65	LPO			SILT – Dark greenish gray (GLEY1 4/10Y), loose, trace fine sand, wet, light product odor.	8.0'
		7						
7	wet	8	113	LPO	ml		At 7.0': SANDY SILT – Dark greenish gray (GLEY1 4/10), loose, wet, light product odor.	
		9						
8	wet	6	240	VL–NPO				
	wet	7	75.4	LPO	sp		POORLY GRADED SAND – Dark greenish gray (GLEY1 3/1), loose, fine grained, trace medium grained, wet, very light to no product odor. At 8.5': Thin gravel layer (?), iron oxidation on gravel (to 1" dia.), wet, light product odor.	
9	wet	9	166	NPO				
	wet		68.5	NPO Bentonite Chips			POORLY GRADED SAND – Very dark greenish gray (GLEY1 3/1), loose, fine grained, wet, no product odor.	9.5'
		11	147	NPO	sm		SILTY SAND WITH CLAY – Very dark greenish gray (GLEY1 3/10Y), loose, 10–20% silt, 10–20% clay (?), wet, no product odor.	10.0'
10	wet	6	220	NPO Sand #2/12	cl		SILTY CLAY WITH SAND – Very dark greenish gray, soft, sticky, plastic, no product odor.	10.5'
		7	142	2" Dia. PVC Screen w/ 0.020" Slots	sp		POORLY GRADED SAND WITH CLAY (in part) – Fine grained, loose, wet, no product odor.	11.5'
11	wet	9	309	NPO	cl		SANDY CLAY – Greenish black (GLEY1 2.5/10Y), soft, low plasticity, wet, no product odor.	12.0'
12		11		Bottom Cap			TOTAL DEPTH OF BORING IS 12.0 FEET	
13								
14								
15								
16							Grout = 0'–9.5' Bentonite Chips (Hydrated) = 9.5'–10.5' 2/12 Sand: 10.5'–12.0' 2-inch well casing, Schedule 40 PVC = 0'–12' Screen = 11.0'–12.0' 0.020-inch slots = 11.0'–12.0' T.D. Well = 12.0' T.D. Hole = 12.0'	
17								

DRILLER : Tory with Nick and David
DRILLING CO. : Woodward Drilling Company
DRILLING METHOD : Hollow Stem Auger – 8" Augers
SAMPLING METHOD : Split Spoon
PROJECT : Alameda Point–Site 4C, CTO–101
LOCATION : ~10' North of Piezo 11, Parcel 37
PROJECT NO. : 843778–06020400

Shaw™
Shaw E & I, Inc.

DRAWN BY	RB	CHECKED BY		DRAWING NO. : 843778–A69
DATE	9/16/04	APPROVED BY		

Shaw® Shaw Environmental & Infrastructure, Inc.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 843778	PROJECT NAME: Alameda Pt CTO 101	
BORING NUMBER: 101-CA06-DW7	COORDINATES:	DATE: 3-17-05
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 3-17-05
ENGINEER/GEOLOGIST: E Mallenmeister	Depth Date/Time	DATE COMPLETED: 3-17-05
DRILLING METHODS: 8 in OD HSA		PAGE: 1 OF 1

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6 in)	RECOVERY (in)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
3 5	Hand Augered			Asphalt 6" Poorly graded sand, gray, (5Y 5/1) moist, 100% fine to med grnd sand, strong hydrocarbon odor 1-2 cm shell fragments present wet at 3ft, iridescent sheen on water, product present strong hydrocarbon odor. (PK)	SP			
	1	2 3 3 3	12"	wet moderate HC odor				
10	2	2 2 2 2	12"	wet mod HC odor @ 9' 6" color change to olive (5Y 4/3)				
	3	2 2 3 3	8"	wet, weak HC odor				
15	4	2 2 2 2	7 24"	@14' color change to very dk gray (N4/0), becoming fine to v. fine grained, w/ 1-3 mm shells, bivalves				

NOTES: TD 15 ft

Drilling Contractor: Woodward Drilling

Drilling Equipment: Brainard Kilman (BK) 87

Driller: Tomas Rodriguez

243C-3-00

Monitoring Well Construction Form

Project:	Alameda Pt CTO101 843778	Well Number:	101-CA06-DW7
Location:	Alameda Pt CAA6	Site Location:	CAA6
Client:	US Navy	Installation Date	3-17-05
Subcontractor:	Woodward Drilling	Northing:	
Driller:	Toribio Rodriguez	Easting:	
IT Field Representative	Eugene Mullenmeister	NAD:	NGVD:

Protective Cover Elevation (ft):

Top of Casing Elv. (ft):

Top of Casing Stickup (ft): 1.5ft

Land Surface Elv. (ft):

Approximate Diameter of Borehole (in): 8 in

Well Casing Diameter (in): 2 in

Depth to Water (ft):

During Drilling: 3 ft

Date: 3-17-05

Post Development: TOC

Date:

Top of Bentonite Seal (ft): 12

Top of Filter Pack (ft): 13

Top of Screen Interval (ft): 14

Bottom of Screen Interval (ft): 15

Bottom of Well (ft): 15

Bottom of Filter Pack (ft): 15

Bottom of Borehole (ft): 15

Protective Casing:
- Type: None
- Dimensions (in): NA
- Length (ft): NA
- Guard Post: NA

Ground Seal (Surface Pad):
- Dimensions: NA
- Type: Concrete

Annular Space Seal: Basalite Type I-II
- Type: Bentonite-Cement Grout
- Installation: (Gravity) Tremie Pumped

Bentonite Seal:
- Manufacturer: Baroid Holeplug
- Type: 3/8" Pellets (Chips) Slurry
- Installation: Sim lifts (One Section) (Gravity) Tremie Pumped
- Hydration time (hrs): 1/2, 50-Lb bag

Filter Pack Material:
- Manufacturer: RMC Pacific
- Product Name: Lapis Lustre
- Size: 2/12
- Volume Added (ft³): 1, 100-Lb bag
- Installation: (Gravity) Tremie

Well Casing:
- Manufacturer: Boart Longyear
- Type: Sch 40 PVC
- Diameter (in): 2 in

Well Screen Casing:
- Manufacturer: Boart Longyear
- Type: Sch 40 PVC
- Slot Size (in): 0.010 % Open
- Slot Type: Continuous wrap (Factory slot)

Sump/End Cap: Slip cap

Backfill Material: None

Water added to bentonite: None

Shaw

Shaw E & I, Inc.

Shaw Environmental & Infrastructure, Inc.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 843778	PROJECT NAME: Alameda Pt CTO 101		
BORING NUMBER: 101-CA06-DW8	COORDINATES:	DATE: 3-17-05	
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 3-17-05	
ENGINEER/GEOLOGIST: E Mullenmeister	Depth Date/Time	DATE COMPLETED: 3-17-05	
DRILLING METHODS: 8 in OD HSA		PAGE: 1 OF 1	

DEPTH ( )	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ( )	RECOVERY ( )	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Asphalt 3"				
				Base rock 12"				
5	Hand Auger			Poorly graded sand, gray (5Y 5/1), moist, 100% fine to well grad sand, 1-2cm shell fragments, strong hydrocarbon odor wet at 3ft, strong odor	SP			
	1	2 2 2 2	8"	wet no odor				
10	2	2 2 2 2	9"	wet no odor				
	3	2 2 2 2	8"	wet no odor				
15	4	2 2 2 2	13"	13'9" Silt, dk gry (N 4/0) 60% silt, 40% clay, wet no odor; Poorly graded sand w/silt, 90% fine to fine sand 10% silt w/shell frag present on last 1/4" of sample. vdk gry (N 3/0)	SP-SM			

NOTES: TD 15 ft

Drilling Contractor: Woodward Drilling

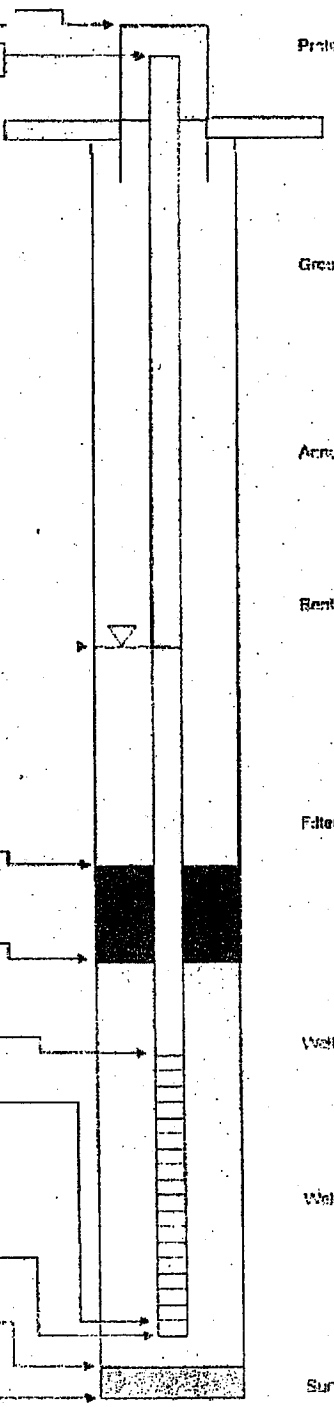
Drilling Equipment: Brainard Kilman (BK) 81

Driller: Toribio Rodriguez

243C-3-00

Monitoring Well Construction Form

Project:	Alameda Pt CTO101 843778	Well Number:	101-CA06-DW8
Location:	Alameda Pt CAA6	Site Location:	CAA6
Client:	US Navy	Installation Date:	3-17-05
Subcontractor:	Woodward Drilling	Northing:	
Driller:	Toribio Rodriguez	Easting:	
IT Field Representative:	Eugene Mullenmeister	NAD:	NGVD:



Protective Cover Elevation (ft):

Top of Casing Elv. (ft):

Top of Casing Stickup (ft): 1.5 ft

Land Surface Elv. (ft):

Approximate Diameter of Borehole (in): 8 in

Well Casing Diameter (in): 2 in

Depth to Water (ft):

During Drilling: 3 ft

Date: 3-17-05

First Development: NO

Date: E

Top of Bentonite Seal (ft): 12

Top of Filter Pack (ft): 13

Top of Screen Interval (ft): 14

Bottom of Screen Interval (ft): 15

Bottom of Well (ft): 15

Bottom of Filter Pack (ft): 15

Bottom of Borehole (ft): 15

Protective Casing:

Type: None

Dimensions (in): NA

Length (ft): NA

Guard Post: NA

Ground Seal (Surface Pad):

Dimensions: NA

Type: Concrete

Annular Space Seal: Basalite Type I-II

Type: Bentonite-Cement Grout

Installation: Gravity Tremie Pumped

Bentonite Seal:

Manufacturer: Baroid Holeplug

Type: 3/8" Pellets (chips) Slurry

Installation: 8-in lifts (One Section) (Gravity) Tremie Pumped

Hydration time (hrs): 1/2 . 50-Lb bag

Filter Pack Material:

Manufacturer: RMC Pacific

Product Name: Lapis Lustre

Size: 2/12

Volume Added (ft³): 1,100-Lb bag

Installation: (Gravity) Tremie

Well Casing:

Manufacturer: Boart Longyear

Type: PVC Sch 40

Diameter (in): 2 in

Well Screen Casing:

Manufacturer: Boart Longyear

Type: PVC Sch 40

Slot Size (in): 0.010 % Open

Slot Type: Continuous wrap (Factory slot)

Sump/End Cap: slip cap

Backfill Material: None

Water added to bentonite: NA

Shaw

Shaw E & I, Inc.

Shaw Environmental & Infrastructure, Inc.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 843778	PROJECT NAME: Alameda Pt CTO 101	
BORING NUMBER: 101-CA06-DW9	COORDINATES:	DATE: 3-17-05
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 3-17-05
ENGINEER/GEOLOGIST: E Mullenmeister	Depth Date/Time	DATE COMPLETED: 3-17-05
DRILLING METHODS: 8 in OD HSA		PAGE: 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6/in)	RECOVERY in	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Asphalt 3"				
				Base rock				
	Hand Augered			Poorly graded sand, dk gray (5Y 4/1), 100% fine to medium grnd sand, moist, strong hydrocarbon (HC) odor				
				wet at 3½ ft, strong HC odor				
5					SP			
				6" silty sand layer from 7' to 7.5'				
	1	2 2 3 3	8"	wet weak HC odor				
10	2	2 2 2 2	10"	wet no HC odor				
	3	1 2 2 2	10"	wet no HC odor				
				13' 3"				
	4	1 2 2 2	8"	Poorly graded sand w/silt, v. dk gry (N 3/0) 90% sand, 10% silt w/ 1-3mm shells mixed w/ silty sand, dk gry (N 3/0), 65% vfn grnd sand, 35% silt, wet, no HC odor	SP-SM/SM			
15				TD 15 ft				

NOTES:

Drilling Contractor: Woodward Drilling

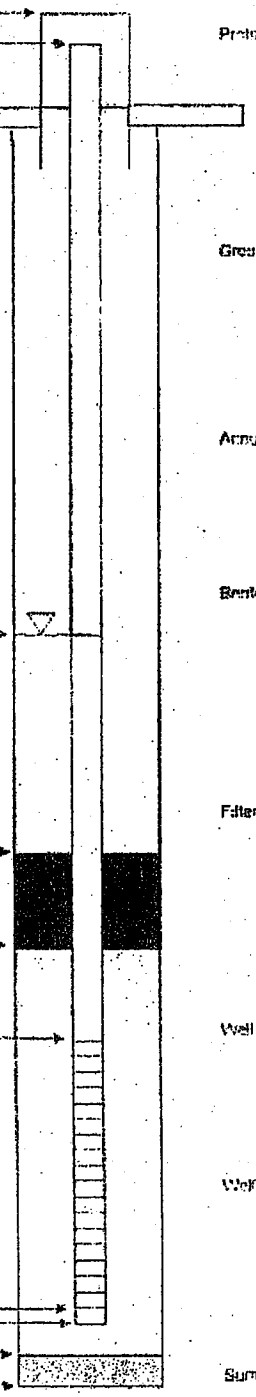
Drilling Equipment: Brainard Kilman (BK) 81

Driller: Toribio Rodriguez

243C-3-00

Monitoring Well Construction Form

Project:	Alameda Pt CTO 101 843778	Well Number:	101-CA06-DW9
Location:	Alameda Pt CAA6	Site Location:	CAA6
Client:	US Navy	Installation Date:	3-17-05
Subcontractor:	Woodward Drilling	Northing:	
Driller:	Toribio Rodriguez	Easting:	
IT Field Representative:	Eugene Mullenmeister	NAD:	NGVD:



Protective Cover Elevation (ft):

Top of Casing Elev. (ft):

Top of Casing Stickup (ft): 1.5 ft

Land Surface Elev. (ft):

Approximate Diameter of Borehole (in): 8 in

Well Casing Diameter (in): 2 in

Depth to Water (ft):

During Drilling: 3.5

Date: 3-17-05

Post Development: TOC

Date: E

Top of Bentonite Seal (ft): 12

Top of Filter Pack (ft): 13

Top of Screen Interval (ft): 14

Bottom of Screen Interval (ft): 15

Bottom of Well (ft): 15

Bottom of Filter Pack (ft): 15

Bottom of Borehole (ft): 15

Protective Casing:

Type: None

Dimensions (in): NA

Length (ft): NA

Guard Post: NA

Ground Seal (Surface Pad):

Dimensions: NA

Type: Concrete

Annular Space Seal: Basalite Type I-II

Type: Bentonite-Cement Grout

Installation: (Gravity) Tremie Pumped

Bentonite Seal:

Manufacturer: Baroid Holeplug

Type: 3/8" Pellets chips Slurry

Installation: 8-in lift: (One Section) Gravity Tremie Pumped

Hydration time (hrs): 50-Lb bag

Filter Pack Material:

Manufacturer: RMC Pacific

Product Name: Lapis Lustre

Size: 2/12

Volume Added (ft³): 1, 100-Lb bag

Installation: (Gravity) Tremie

Well Casing:

Manufacturer: Boart Longyear

Type: Sch 40 PVC

Diameter (in): 2 in

Well Screen Casing:

Manufacturer: Boart Longyear

Type: Sch 40 PVC

Slot Size (in): 0.010 % Open

Slot Type: Continuous wrap (Factory slot)

Sump/End Cap: slip cap

Backfill Material: None

Shaw

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Water added to bentonite NA

Shaw® Shaw Environmental & Infrastructure, Inc.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 843778	PROJECT NAME: Alameda Pt CTO 101		
BORING NUMBER: 101-CA06-DW10	COORDINATES:		DATE: 3-18-05
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 3-18-05
ENGINEER/GEOLOGIST: E Mullenmeister	Depth	Date/Time	DATE COMPLETED: 3-18-05
DRILLING METHODS: 8 in OD HSA			PAGE: 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6 in)	RECOVERY (in)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
	Hand Augered			Asphalt 3" / Baserock 6" / Poorly graded sand, dk gray (5Y 4/1), moist, 100% fine to med grnd sand, strong hydrocarbon (HC) odor / wet at ~3 ft				
5								
	1	3 3 3 3	14"	wet, no odor				
10	2	2 2 2 2	6"	wet, no odor				
	3	2 2 2 2	20"	wet, H_2S odor / Poorly graded sand w/silt v. dk gry (N 4/0) 90% fine to v. fine sand 10% silt w/ 1% tract shells mixed w/ poorly graded dk gry (5Y 4/1) sand from 12' to 13.5'				
	4	2 2 2 3	12"	Silt, dk gry (5Y 4/1), ~~moist to~~ wet 60% silt, 40% clay, no HC odor.				
15								

NOTES: TD is 15 ft

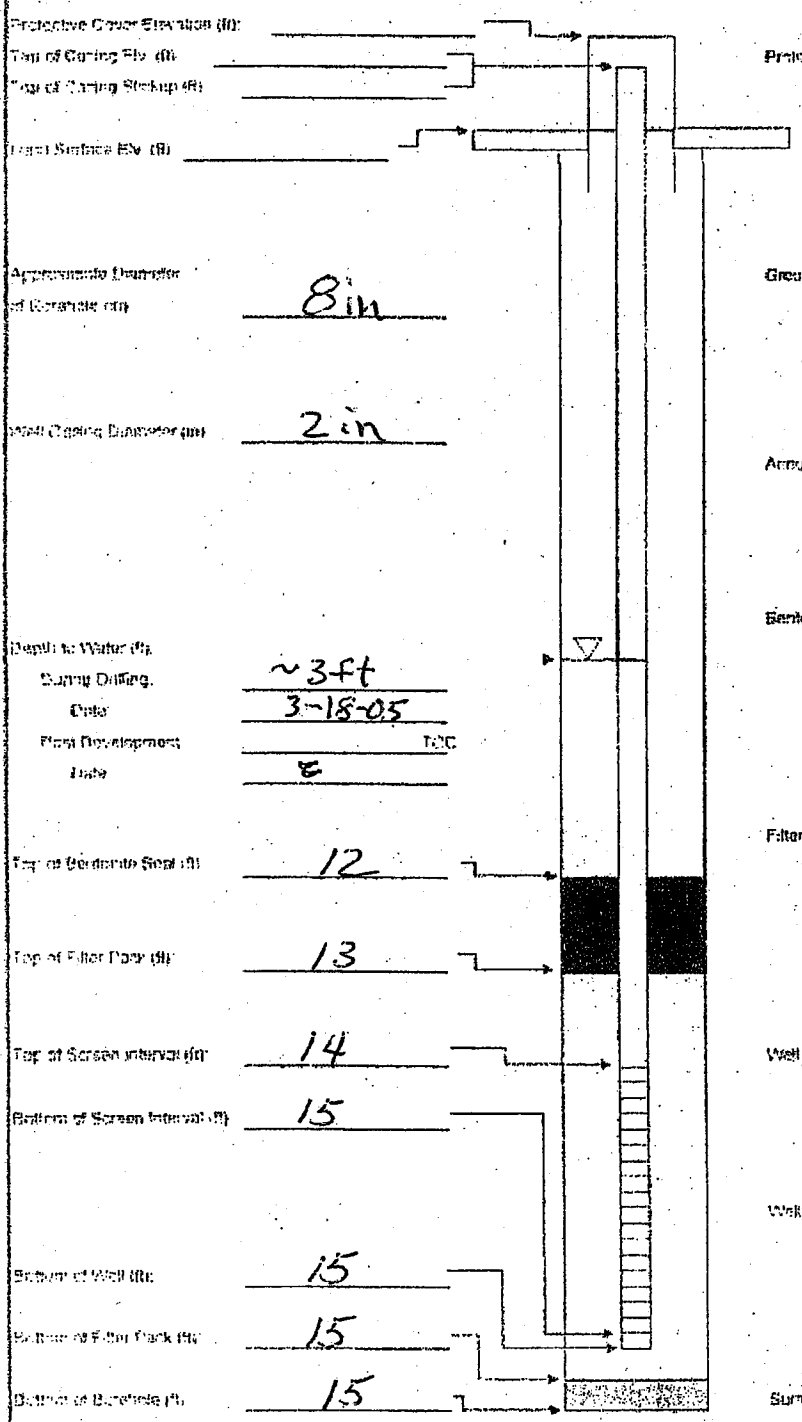
Drilling Contractor: Woodward Drilling

Drilling Equipment: Brainard Kilman (BK) 81

Driller: Toribio Rodriguez

Monitoring Well Construction Form

Project:	Alameda Pt CTO 101 843778	Well Number:	101-CA06-DW10
Location:	Alameda Pt CAA6	Site Location:	CAA6
Client:	US Navy	Installation Date	3-18-05
Subcontractor:	Woodward Drilling	Northing:	
Driller:	Toribio Rodriguez	Easting:	
IT Field Representative:	Eugene Mullenmeister	NAD:	NGVD:



Protective Cover Elevation (ft):

Top of Casing Elv. (ft):

Top of Casing Stickup (ft):

Land Surface Elv. (ft):

Approximate Diameter of Borehole (in): 8in

Well Casing Diameter (in): 2in

Depth to Water (ft):

During Drilling: ~3ft

Date: 3-18-05

First Development: TOC

Date: 8

Top of Bentonite Seal (ft): 12

Top of Filter Pack (ft): 13

Top of Screen Interval (ft): 14

Bottom of Screen Interval (ft): 15

Bottom of Well (ft): 15

Bottom of Filter Pack (ft): 15

Bottom of Borehole (ft): 15

Protective Casing:

Type: None

Dimensions (in): NA

Length (ft): NA

Guard Post: NA

Ground Seal (Surface Pad):

Dimensions: NA

Type: Concrete

Annular Space Seal: Basalite Type I-II

Type: Bentonite-Cement Grout

Installation: Gravity Tremie Pumped

Bentonite Seal:

Manufacturer: Baroid Holeplug

Type: 3/8" Pellets (Chips) Slurry

Installation: 8-ft lifts (One Section)

(Gravity) Tremie Pumped

Hydration time (hrs): 1/2, 50-Lb bag

Filter Pack Material:

Manufacturer: RMC Pacific

Product Name: Lapis Lustre

Size: 2/12

Volume Added (ft³): 1, 100-Lb bag

Installation: (Gravity) Tremie

Well Casing:

Manufacturer: Boart Longyear

Type: Sch 40 PVC

Diameter (in): 2in

Well Screen Casing:

Manufacturer: Boart Longyear

Type: Sch 40 PVC

Slot Size (in): 0.010 in Open

Slot Type: Continuous Factory slot wrap

Sump/End Cap: Slipcap

Backfill Material: None

Water added to bentonite: NA

Shaw

Shaw E & I, Inc.

Attachment 2
Survey Data

Attachment 2
Survey Data for CAA-6, Surveyed August 26, 2004

Description	North	East	TOC	FS
	NAD 27 (US Feet)[1]		NAVD 88 (US Feet)	
BW1	474508.57	1477612.47	8.66	8.07
BW2	474476.73	1477639.44	8.88	8.03
BW3	474501.01	1477687.32	9.30	8.34
BW4	474473.47	1477712.03	8.66	7.80
BW5	474498.15	1477748.37	8.01	7.01
BW6[2]	474472.14	1477775.34	7.94	7.14
DVE1	474395.40	1477720.29	8.65	8.09
DVE2	474417.53	1477692.50	9.12	8.57
DVE3	474427.59	1477723.76	8.07	7.76
DVE4	474415.53	1477733.82	8.25	7.72
OB1	474486.80	1477652.54	9.08	8.17
OB2	474494.36	1477667.93	9.29	8.41
OB3	474480.13	1477725.50	8.51	7.74
PZ12	474410.66	1477770.64	9.56	7.33
PZ13	474494.45	1477661.89	11.42	8.42
SB6	474493.01	1477776.12		6.95
SB7	474504.64	1477713.86		7.75
SB8	474456.88	1477679.37		8.14
SB9	474486.31	1477619.17		7.79
SB10	474415.22	1477734.49		7.69
SB11	474415.17	1477699.32		8.22

Control Points Location

Point No.	North	East	Elevation	Description
	NAD 27 (US Feet)		NAVD 88 (US Feet)	
1107	474100.18	1477791.48	7.49	FD SCB + OLD76
1108	474086.70	1477267.44	7.08	FD SCB + OLD77
1307	474493.58	1477428.52	7.2	FD SCB + OLD78

[1]Datum conversions performed using the software Corpscon Version 6.0.1™ (U.S. Army Corps of Engineers, 2004).

[2]Point BW6 was mistakenly referenced as DW-06 on the survey report.

FS denotes finished surface.

TOC denotes top of casing.

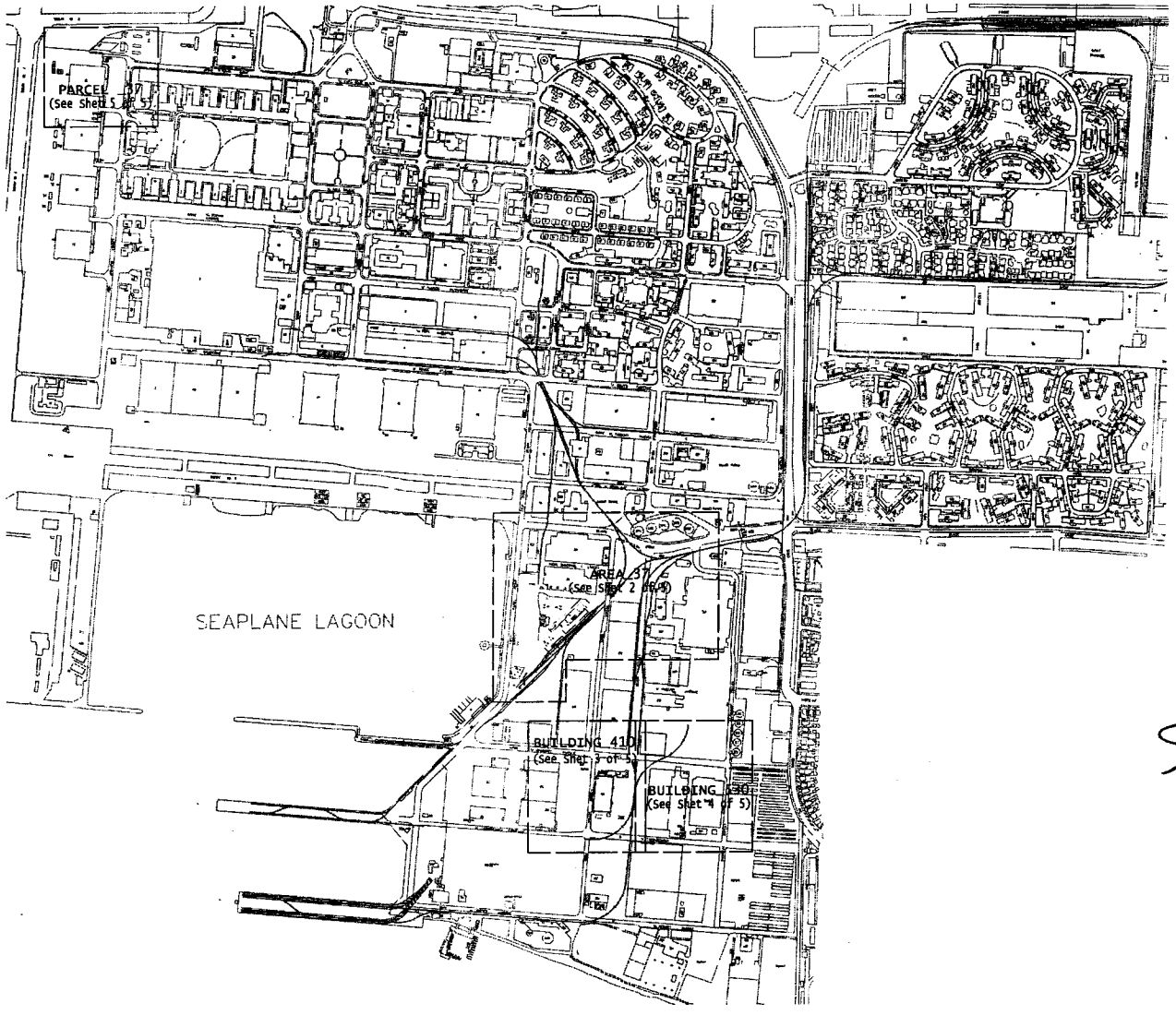
Output File, Horizontal Survey Data Conversion, NAD 83 to NAD 27, August 26, 2004

Point	NAD 27 Northing	Easting	NAVD 88 Elevation
BW-01	474508.57	1477612.47	8.07
BW-02	474476.73	1477639.44	8.03
BW-03	474501.01	1477687.32	8.34
BW-04	474473.47	1477712.03	7.80
BW-05	474498.15	1477748.37	7.01
BW-06	474472.14	1477775.34	7.14
DVE-01	474395.4	1477720.29	8.09
DVE-02	474417.53	1477692.5	8.57
DVE-03	474427.59	1477723.76	7.76
DVE-04	474415.53	1477733.82	7.72
OB-01	474486.8	1477652.54	8.17
OB-02	474494.36	1477667.93	8.41
OB-03	474480.13	1477725.5	7.74
PZI2	474410.36	1477771.2	7.33
PZ13	474494.45	1477661.89	8.42
SB-06	474493.01	1477776.12	6.95
SB-07	474504.64	1477713.86	7.75
SB-08	474456.88	1477679.37	8.14
SB-09	474486.31	1477619.17	7.79
SB10	474415.22	1477734.49	7.69
SB11	474415.17	1477699.32	8.22
1107	474100.18	1477791.48	7.49
1108	474086.7	1477267.44	7.08
1307	474493.58	1477428.52	7.20

PETROLEUM FUEL CORRECTIVE ACTION				
WELLS LOCATION PARCEL_37				
POINT NO.	NORTH	EAST	TOC	FS
	NAD 83 (US FEET)			NAVD 88 (US FEET)
BW-01	2114915.98	6038979.34	8.86	8.07
BW-02	2114884.14	6039006.31	8.88	8.03
BW-03	2114908.42	6039054.19	9.30	8.34
BW-04	2114880.88	6039078.90	8.66	7.80
BW-05	2114905.56	6039115.24	8.01	7.01
DVE-01	2114802.81	6039087.16	8.65	8.09
DVE-02	2114824.94	6039059.37	9.12	8.57
DVE-03	2114835.00	6039090.63	8.07	7.76
DVE-04	2114822.94	6039100.69	8.25	7.72
DW-06	2114879.55	6039142.21	7.94	7.14
OB-01	2114894.21	6039019.41	9.08	8.17
OB-02	2114901.77	6039034.80	9.29	8.41
OB-03	2114887.54	6039092.37	8.51	7.74
PZ12	2114817.77	6039138.07	9.56	7.33
PZ13	2114901.86	6039028.76	11.42	8.42
SB-06	2114900.42	6039142.99		6.95
SB-07	2114912.05	6039080.73		7.75
SB-08	2114864.29	6039046.24		8.14
SB-09	2114893.72	6038986.04		7.79
SB10	2114822.63	6039101.36		7.69
SB11	2114822.58	6039066.19		8.22
CONTROL POINTS LOCATION				
POINT NO.	NORTH	EAST	ELEVATION	DESCRIPTION
	NAD 83 (US FEET)		NAVD 88 (US FEET)	
1107	2114507.59	6039158.34	7.49	FD SCB + OLD76
1108	2114494.12	6038634.31	7.08	FD SCB + OLD77
1307	2114901.00	6038795.39	7.20	FD SCB + OLD78

SITE PLAN
MONITORING WELL LOCATIONS
PETROLEUM FUEL CORRECTION ACTION
ALAMEDA POINT, ALAMEDA, CA

CONTROL SKETCH



CAL VADA SURVEYING, INC.

800 0 400 800

SCALE 1" = 800'

LICENSED LAND SURVEYOR
ARMANDO D. DuPONT
L.S. 7780
EXP. 12-31-05
STATE OF CALIFORNIA

DATE OF SURVEY
NOVEMBER 11, 2003
APRIL 19, 2004
AUGUST 24, 2004

BENCH MARK
THE ELEVATIONS SHOWN HEREON ARE BASED UPON NGS MONUMENT NO. HT 0880, ELEVATION = 9.39 FEET (NAVD 88)

COORDINATES
THE COORDINATES SHOWN HEREON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM (NAD83), CALIFORNIA ZONE3, BASED UPON STATIC GPS OBSERVATION, HOLDING NGS POINT DY 0880

PREPARED FOR
SHAW GROUP INC.
43218 BUSINESS PARK DRIVE, SUITE 201
SHAW ENVIROMENTAL & INFRASTRUCTURE
4005 PORT CHICAGO HWY
CONCORD, CA 94520-1120
PHONE: (925) 288-9898
FAX: (925) 288-0888

NO.	DATE	REVISIONS	BY
0	12/01/03	SUBMITTAL	BK
3	10/01/04	NEW LOCATIONS	BK

CAL VADA SURVEYING, INC.
Los Angeles • San Francisco • Denver • Phoenix
196 Business Center Drive Phone: (909) 280-9960
Corona, CA 92880-1782 Fax: (909) 280-6746
www.calvada.com • (800) CALVADA (225-8232)
JOB NO. 03378_R3
SHEET 1 OF 5

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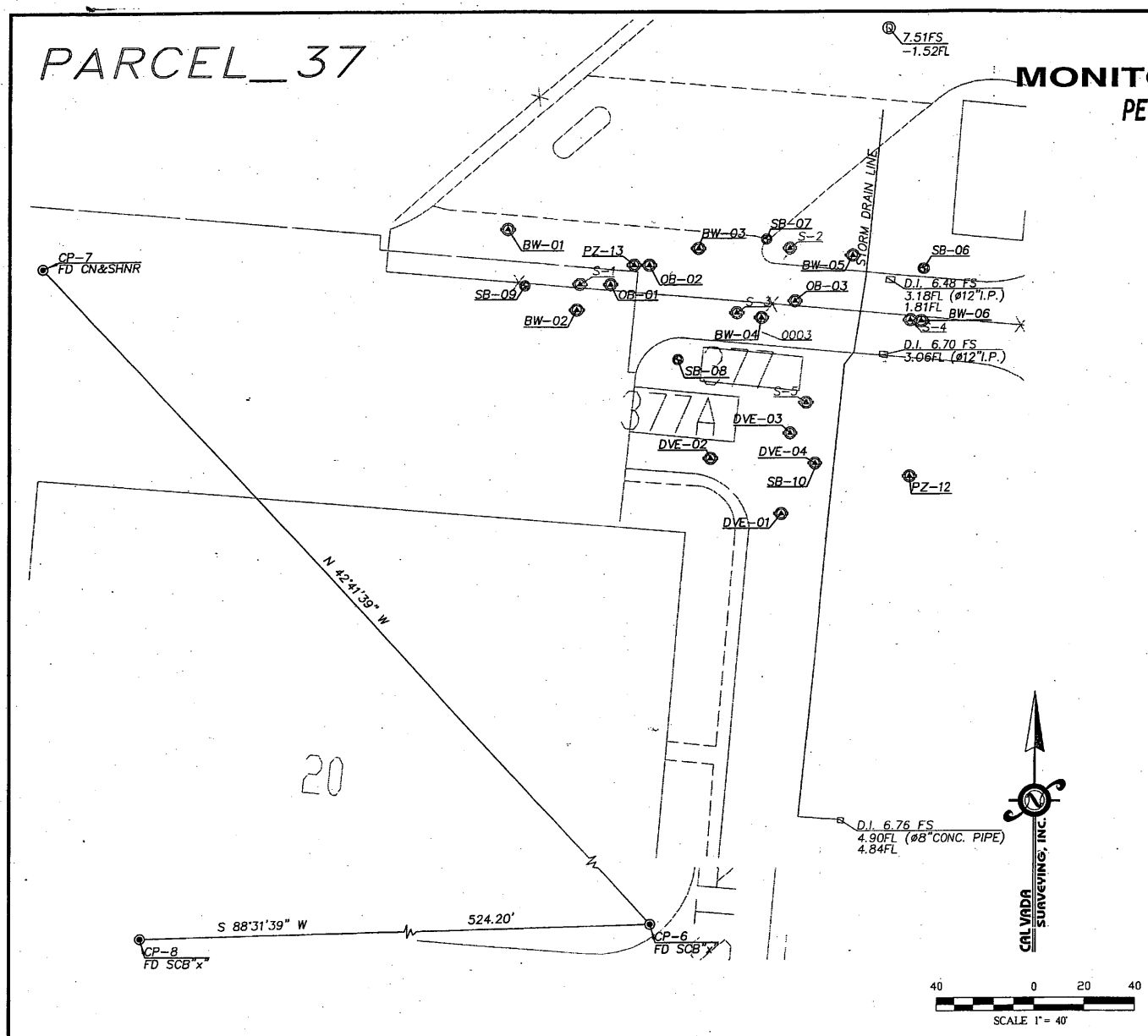
SITE PLAN
MONITORING WELL LOCATIONS
PETROLEUM FUEL CORRECTION ACTION
ALAMEDA POINT, ALAMEDA, CA



PETROLEUM FUEL CORRECTIVE ACTION				
WELLS LOCATION PARCEL_37				
POINT NO.	NORTH	EAST	TOC	TB
	NAD 83 (US FEET)		NAVD 88 (US FEET)	
BW-01	2114915.98	6038979.34	8.46	8.07
BW-02	2114884.14	6038906.31	8.58	8.03
BW-03	2114908.42	6038954.19	8.30	8.34
BW-04	2114890.86	6038978.50	8.58	7.80
BW-05	2114905.58	6038118.24	8.01	7.01
DVE-01	2114802.81	6039087.18	8.65	8.09
DVE-02	2114824.84	6039058.37	8.12	8.57
DVE-03	2114836.00	6039090.83	8.07	7.76
DVE-04	2114822.94	6039100.69	8.25	7.72
DVE-05	2114679.55	6039142.21	7.94	7.14
OB-01	2114894.21	6038918.41	8.08	8.17
OB-02	2114901.77	6038934.90	8.29	8.41
OB-03	2114887.54	6038962.37	8.61	7.74
PZ12	2114817.77	6039133.07	8.69	7.83
PZ13	2114901.86	6039028.76	11.42	8.42
SB-06	2114900.42	6039142.99		6.95
SB-07	2114912.05	6038983.73		7.75
SB-08	2114864.29	6039048.24		8.14
SB-09	2114883.72	6038986.04		7.79
SB10	2114822.63	6039101.38		7.69
SB11	2114822.56	6039066.19		8.22

CONTROL POINTS LOCATION				
POINT NO.	NORTH	EAST	ELEVATION	DESCRIPTION
	NAD 83 (US FEET)		NAVD 88 (US FEET)	
1107	2114507.59	6039158.34	7.49	FD SCB + OLD76
1108	2114494.12	6038634.31	7.06	FD SCB + OLD77
1307	2114901.00	6038795.39	7.30	FD SCB + OLD78

LEGEND

⊗	MONITORING WELL	Ⓓ	STORM DRAIN MANHOLE	BTM	BOTTOM
●	FOUND MONUMENT	FS	FINISHED SURFACE	I.P.	IRON PIPE
Ⓢ	SEWER MANHOLE	TOP	TOP OF STRCTURE	D.I.	DRAIN INLET
Ⓔ	ELECTRIC MANHOLE	FL	FLOW LINE	DVE-11	PREVIOUSLY SURVEYED WELL
				DVE-37	NEWLY SURVEYED WELL

PREPARED FOR
SHAW GROUP INC.

43218 BUSINESS PARK DRIVE, SUITE 201
SHAW ENVIROMENTAL & INFRASTRUCTURE
4005 PORT CHICAGO HWY
CONCORD, CA 94520-1120
PHONE: (925) 288-9898
FAX: (925) 288-0888

DATE OF SURVEY
NOVEMBER 11, 2003
AUGUST 26, 2004

BENCH MARK
THE ELEVATIONS SHOWN HEREON ARE BASED UPON NGS MONUMENT NO. HT 0880, ELEVATION = 9.39 FEET (NAVD 88)

COORDINATES
THE COORDINATES SHOWN HEREON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM (NAD83), CALIFORNIA ZONE3, BASED UPON STATIC GPS OBSERVATION, HOLDING NGS POINT DY 0880

NO.	DATE	REVISIONS	BY
0	12/01/03	SUBMITTAL	BK
3	10/01/04	NEW LOCATIONS	BK

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JOB NO. 03378_R3

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Appendix C
Groundwater Level and Product Thickness Logs

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 1/4/04 - 0830 WEATHER: Partly Cloudy

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	2.54	
DVE- 2	—	2.85	
DVE-3	—	1.73	
DVE-4	—	1.90	
OB1	—	2.32	
OB2	—	2.20	
OB3	—	1.25	
IT13-CA06-01	—	3.38	Sheen
IT13-CA06-02	—	3.21	
IT13-CA06-03	—	—	
IT13-CA06-04	—	2.71	
IT13-CA06-05	—	1.87	
IT13-CA06-06	—	1.76	
IT13-CA06-07	—	2.89	
IT13-CA06-08	—	3.95	
IT13-CA06-09	—	3.93	
IT13-CA06-10	—	1.71	
IT13-CA06-11	—	4.41	
IT13-CA06-12	—	3.47	
IT13-CA06-13	—	4.47	
IT13-CA06-14	—	3.67	
IT13-CA06-15	—	3.78	
IT13-CA06-16	—	1.69	

PARCEL 37

Water Level Measurements - 1/5/04 11:30

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	3.85	
IT13-CA06-02	—	4.21	
IT13-CA06-03	—	5.35	
IT13-CA06-04	—	2.44	
IT13-CA06-05	—	2.11	
IT13-CA06-06	—	2.04	
IT13-CA06-07	—	2.96	
IT13-CA06-08	—	4.49	
IT13-CA06-09	—	4.34	
IT13-CA06-10	—	2.09	
IT13-CA06-11	—	—	clogged
IT13-CA06-12	—	3.63	
IT13-CA06-13	—	5.05	Heavy product ~~[illegible]~~ outside Baylor
IT13-CA06-14	—	4.44	
IT13-CA06-15	—	4.25	
IT13-CA06-16	—	1.87	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

PARCEL 37

Water Level Measurements - _____

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

1-12-04
0800

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		4.08	
IT13-CA06-02		4.47	
IT13-CA06-03		5.7	
IT13-CA06-04		3.27	
IT13-CA06-05		2.12	
IT13-CA06-06		2.28	
IT13-CA06-07		3.92	
IT13-CA06-08		4.73	
IT13-CA06-09		4.6	
IT13-CA06-10		3.71	
IT13-CA06-11	–	–	Clogged
IT13-CA06-12		3.92	
IT13-CA06-13		5.31	1/2 inch of Product
IT13-CA06-14		4.76	
IT13-CA06-15		4.59	
IT13-CA06-16		3.25	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 1/20/04 1030

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	4.36	
IT13-CA06-02	—	4.79	
IT13-CA06-03	—	5.78	
IT13-CA06-04	—	3.31	
IT13-CA06-05	—	2.48	
IT13-CA06-06	—	2.46	
IT13-CA06-07	—	3.45	
IT13-CA06-08	—	5.10	
IT13-CA06-09	—	4.80	
IT13-CA06-10	—	2.41	
IT13-CA06-11	—	—	Clogged
IT13-CA06-12	—	4.08	
IT13-CA06-13	5.49	5.59	
IT13-CA06-14	—	5.06	
IT13-CA06-15	—	4.77	
IT13-CA06-16	—	2.26	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

E, M

PARCEL 37

Water Level Measurements - 1/26/04 8:00AM

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	4.43	
IT13-CA06-02	—	4.85	
IT13-CA06-03	—	5.97	
IT13-CA06-04	—	3.40	
IT13-CA06-05	—	2.63	
IT13-CA06-06	—	2.68	
IT13-CA06-07	—	3.62	
IT13-CA06-08	—	5.16	
IT13-CA06-09	—	4.87	
IT13-CA06-10	—	2.45	
IT13-CA06-11	—	—	clogged
IT13-CA06-12	—	4.27	
IT13-CA06-13	5.56	6.36	
IT13-CA06-14	—	5.11	
IT13-CA06-15	—	4.81	
IT13-CA06-16	—	2.41	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37
Water Level Measurements - 1/27/04
CTO# 13, Alameda Point, Alameda, CA
IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01			
IT13-CA06-02			
IT13-CA06-03			
IT13-CA06-04			
IT13-CA06-05			
IT13-CA06-06			
IT13-CA06-07			
IT13-CA06-08			
IT13-CA06-09			
IT13-CA06-10			
IT13-CA06-11			
IT13-CA06-12			
IT13-CA06-13			less Than a ¼ in. product.
IT13-CA06-14			
IT13-CA06-15			
IT13-CA06-16			
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 2/3/04

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	3.12	
IT13-CA06-02	—	3.58	
IT13-CA06-03	—	5.25	
IT13-CA06-04	—	3	
IT13-CA06-05	—	2.42	
IT13-CA06-06	—	2.33	
IT13-CA06-07	—	3.18	
IT13-CA06-08	—	4.56	
IT13-CA06-09	—	3.62	
IT13-CA06-10	—	2.08	
IT13-CA06-11	—	—	clogged
IT13-CA06-12	—	3.88	
IT13-CA06-13	4.75	4.75	sheen
IT13-CA06-14	—	3.91	
IT13-CA06-15	—	3.44	
IT13-CA06-16	—	1.98	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

PARCEL 37

Water Level Measurements - 2/9/04 8:00 AM.

CTO# 13, Alameda Point, Alameda, CA E. MACK

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	4.33	
IT13-CA06-02	—	4.58	
IT13-CA06-03	—	5.86	
IT13-CA06-04	—	3.37	
IT13-CA06-05	—	2.58	
IT13-CA06-06	—	2.60	
IT13-CA06-07	—	3.54	
IT13-CA06-08	—	5.01	
IT13-CA06-09	—	4.76	
IT13-CA06-10	—	2.38	
IT13-CA06-11	—		clogged
IT13-CA06-12	—	4.21	
IT13-CA06-13	5.46	5.46	sheen but Heavy on Probe
IT13-CA06-14	—	4.97	
IT13-CA06-15	—	4.70	
IT13-CA06-16	—	2.30	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

PARCEL 37

Water Level Measurements - 2/17/04 7:30 AM

CTO# 13, Alameda Point, Alameda, CA cloudy E. Mack

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	3.29	
IT13-CA06-02	—	3.72	
IT13-CA06-03		5.31	
IT13-CA06-04	—	3.08	
IT13-CA06-05	—	2.37	
IT13-CA06-06	—	2.29	
IT13-CA06-07	—	3.15	
IT13-CA06-08	—	4.45	
IT13-CA06-09	—	3.93	
IT13-CA06-10	—	2.09	
IT13-CA06-11	—	—	clogged
IT13-CA06-12	—	3.91	
IT13-CA06-13	4.88	4.88	sheen
IT13-CA06-14	—	4.07	
IT13-CA06-15	—	3.74	
IT13-CA06-16	—	2.03	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

PARCEL 37

Water Level Measurements - 2-23-04 0930

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		3.96	
IT13-CA06-02		4.4	
IT13-CA06-03		5.55	
IT13-CA06-04		3.13	
IT13-CA06-05		1.99	
IT13-CA06-06		2.3	
IT13-CA06-07		3.25	
IT13-CA06-08		4.71	
IT13-CA06-09		4.53	
IT13-CA06-10		2.6	
IT13-CA06-11		4.83	
IT13-CA06-12		3.9	
IT13-CA06-13	—	—	1/2in Product Heavy Black Sheen
IT13-CA06-14		4.69	
IT13-CA06-15		4.44	
IT13-CA06-16		2.3	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 3-3-04 7:00 am E. Mack

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	4.08	
IT13-CA06-02	—	4.41	
IT13-CA06-03	—	5.43	
IT13-CA06-04		3.04	
IT13-CA06-05	—	2.29	
IT13-CA06-06	—	2.24	
IT13-CA06-07	—	3.20	
IT13-CA06-08	—	4.73	
IT13-CA06-09	—	4.58	
IT13-CA06-10	—	2.11	smells of Product
IT13-CA06-11	—	4.83	
IT13-CA06-12	—	3.88	
IT13-CA06-13	~~5.22~~	5.25	Heavy signs of Product
IT13-CA06-14	—	4.76	
IT13-CA06-15	—	4.52	
IT13-CA06-16	—	2.07	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

PARCEL 37

Water Level Measurements - 3-8-04 12:00pm.

Sunn

CTO# 13, Alameda Point, Alameda, CA

E. Mack

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	435	
IT13-CA06-02	—	479	
IT13-CA06-03	—	612	
IT13-CA06-04	—	327	
IT13-CA06-05	—	244	
IT13-CA06-06	—	245	
IT13-CA06-07	—	345	
IT13-CA06-08	—	504	
IT13-CA06-09	—	478	
IT13-CA06-10	—	232	
IT13-CA06-11	—	506	
IT13-CA06-12	—	409	
IT13-CA06-13	2.75	2.75	sheen
IT13-CA06-14	—	5.05	
IT13-CA06-15	—	4.72	
IT13-CA06-16	—	2.21	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 3-15-04 0830

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

Clear
Rob

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		4.61	
IT13-CA06-02		5.03	
IT13-CA06-03		5.4	
IT13-CA06-04		2.61	
IT13-CA06-05		2.59	
IT13-CA06-06		2.62	
IT13-CA06-07		3.61	
IT13-CA06-08		5.26	
IT13-CA06-09		5.0	
IT13-CA06-10		2.47	
IT13-CA06-11		5.3	
IT13-CA06-12		4.21	
IT13-CA06-13		1/4 in of	Product Bailed out
IT13-CA06-14		5.28	
IT13-CA06-15		5.0	
IT13-CA06-16		2.48	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37
Water Level Measurements - _____
CTO# 13, Alameda Point, Alameda, CA
IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		4.7	
IT13-CA06-02		5.1	
IT13-CA06-03		5.6	
IT13-CA06-04		2.1	
IT13-CA06-05		1.71	
IT13-CA06-06		2.76	
IT13-CA06-07		3.76	
IT13-CA06-08		5.33	
IT13-CA06-09		5.1	
IT13-CA06-10		1.89	
IT13-CA06-11		5.4	
IT13-CA06-12		4.4	
IT13-CA06-13	—	—	Product
IT13-CA06-14		5.36	
IT13-CA06-15		5.1	
IT13-CA06-16		1.99	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 3-29-04 0800

CTO# 13, Alameda Point, Alameda, CA Rob/Clear

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		4.44	
IT13-CA06-02		4.91	
IT13-CA06-03		5.43	
IT13-CA06-04		2.71	
IT13-CA06-05		2.59	
IT13-CA06-06		2.7	
IT13-CA06-07		3.65	
IT13-CA06-08		5.21	
IT13-CA06-09		4.86	
IT13-CA06-10		2.83	
IT13-CA06-11		5.21	
IT13-CA06-12		4.36	
IT13-CA06-13	3.51		1/10 in Product Bailed 10x
IT13-CA06-14		5.2	
IT13-CA06-15		4.38	
IT13-CA06-16		3.1	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 4-5-04 Clear

CTO# 13, Alameda Point, Alameda, CA Rob

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		6.1	
IT13-CA06-02		5.78	
IT13-CA06-03		5.41	
IT13-CA06-04		1.68	
IT13-CA06-05		1.71	
IT13-CA06-06		2.9	
IT13-CA06-07		3.71	
IT13-CA06-08		5.51	
IT13-CA06-09		5.28	
IT13-CA06-10		1.37	
IT13-CA06-11		5.53	
IT13-CA06-12		4.52	
IT13-CA06-13		5.88	
IT13-CA06-14		5.48	
IT13-CA06-15		5.93	
IT13-CA06-16		2.1	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 4-12-04

CTO# 13, Alameda Point, Alameda, CA 0700

IT Proj. # 807181 Rob Overcast

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		4.44	
IT13-CA06-02		5.4	
IT13-CA06-03		5.5	
IT13-CA06-04		1.79	
IT13-CA06-05		2.33	
IT13-CA06-06		2.92	
IT13-CA06-07		4	
IT13-CA06-08		5.6	
IT13-CA06-09		5.33	
IT13-CA06-10		2.19	
IT13-CA06-11		5.6	
IT13-CA06-12		4.6	
IT13-CA06-13	5.88		1/4 in Product Bale/10x
IT13-CA06-14		5.6	
IT13-CA06-15		5.4	
IT13-CA06-16		2.51	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 4-19-04 0500

CTO# 13, Alameda Point, Alameda, CA Bb

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		5.04	
IT13-CA06-02		5.46	
IT13-CA06-03		5.91	
IT13-CA06-04		2.13	
IT13-CA06-05		1.99	
IT13-CA06-06		3.11	
IT13-CA06-07		4.13	
IT13-CA06-08		5.7	
IT13-CA06-09		5.41	
IT13-CA06-10		2.3	
IT13-CA06-11		5.7	
IT13-CA06-12		4.73	
IT13-CA06-13	6.05	6.15	Bailed 10 X
IT13-CA06-14		5.71	
IT13-CA06-15		5.44	
IT13-CA06-16		2.08	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 4-26-04 0700

CTO# 13, Alameda Point, Alameda, CA Clear

IT Proj. # 807181 Rob

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		5.1	
IT13-CA06-02		5.5	
IT13-CA06-03		5.9	
IT13-CA06-04		3.1	
IT13-CA06-05		2.8	
IT13-CA06-06		3.05	
IT13-CA06-07		4.05	
IT13-CA06-08		5.71	
IT13-CA06-09		5.4	
IT13-CA06-10		1.79	
IT13-CA06-11		3.8	
IT13-CA06-12		4.7	
IT13-CA06-13	5.15	5.2	
IT13-CA06-14		5.7	
IT13-CA06-15		5.11	
IT13-CA06-16		2.63	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 5/10/04 12:20 pm Sunny

E. Mack

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.27	
IT13-CA06-02	—	5.85	
IT13-CA06-03	—	6.0	
IT13-CA06-04	—	4.0	
IT13-CA06-05	—	3.21	
IT13-CA06-06	—	3.25	
IT13-CA06-07	—	4.26	
IT13-CA06-08	—	5.89	
IT13-CA06-09	—	5.59	
IT13-CA06-10	—	3.05	
IT13-CA06-11	—	5.89	
IT13-CA06-12	—	4.91	
IT13-CA06-13	6.25	6.26	
IT13-CA06-14	—	5.92	
IT13-CA06-15	—	5.61	
IT13-CA06-16	—	2.97	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

E. Mack

PARCEL 37

Water Level Measurements - 5/17/04 8:00am Sunny

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.36	
IT13-CA06-02	—	5.72	
IT13-CA06-03	—	6.07	
IT13-CA06-04	—	4.08	
IT13-CA06-05	—	3.30	
IT13-CA06-06	—	3.31	
IT13-CA06-07	—	4.38	
IT13-CA06-08	—	5.98	
IT13-CA06-09	—	5.68	
IT13-CA06-10	—	3.12	
IT13-CA06-11	—	5.98	
IT13-CA06-12	—	4.98	
IT13-CA06-13	6.25	6.25	Sheen
IT13-CA06-14	—	6.05	
IT13-CA06-15	—	5.70	
IT13-CA06-16	—	3.07	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

PARCEL 37

Water Level Measurements - 5/24/04 Overcast

CTO# 13, Alameda Point, Alameda, CA 7:45am E. Mack

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.40	
IT13-CA06-02	—	5.79	
IT13-CA06-03	—	6.14	
IT13-CA06-04	—	3.83	
IT13-CA06-05	—	2.70	
IT13-CA06-06	—	3.32	
IT13-CA06-07	—	4.33	
IT13-CA06-08	—	6.02	
IT13-CA06-09	—	5.75	
IT13-CA06-10	—	2.97	
IT13-CA06-11	—	5.98	
IT13-CA06-12	—	5.00	
IT13-CA06-13	6.40	6.41	
IT13-CA06-14	—	6.04	
IT13-CA06-15	—	5.78	
IT13-CA06-16	—	2.64	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

E. Mac P

PARCEL 37

Water Level Measurements - 6-1-04 7:00 am

CTO# 13, Alameda Point, Alameda, CA Sunny

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.42	
IT13-CA06-02	—	5.81	
IT13-CA06-03	—	6.16	
IT13-CA06-04	—	4.03	
IT13-CA06-05	—	2.79	
IT13-CA06-06	—	3.37	
IT13-CA06-07	—	4.39	
IT13-CA06-08	—	6.04	
IT13-CA06-09	—	5.75	
IT13-CA06-10	—	3.10	
IT13-CA06-11	—	6.01	
IT13-CA06-12	—	5.04	
IT13-CA06-13	—	6.45	Sheen outside Baylor
IT13-CA06-14	—	6.05	
IT13-CA06-15	—	5.81	
IT13-CA06-16	—	2.86	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

E. Mack

PARCEL 37

Water Level Measurements - 6/7/04 10:00AM Sunn

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.39	
IT13-CA06-02	—	5.78	
IT13-CA06-03	—	6.11	
IT13-CA06-04		3.97	
IT13-CA06-05	—	~~[illegible]~~ E.M	3.04
IT13-CA06-06	—	3.36	
IT13-CA06-07	—	4.37	
IT13-CA06-08	—	6.03	
IT13-CA06-09	—	5.72	
IT13-CA06-10	—	2.46	
IT13-CA06-11	—	6.09	
IT13-CA06-12	—	5.00	
IT13-CA06-13	—	6.40	Sheen on Tip of Probe
IT13-CA06-14	—	6.04	
IT13-CA06-15	—	5.74	
IT13-CA06-16	—	2.72	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

E. Mack

PARCEL 37

Water Level Measurements - 6/14/04 7:25am Sunny

CTO# 13, Alameda Point, Alameda, CA

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.51	
IT13-CA06-02	—	5.88	
IT13-CA06-03	—	6.27	
IT13-CA06-04	—	4.24	
IT13-CA06-05	—	3.44	Strange Smell
IT13-CA06-06	—	3.45	
IT13-CA06-07	—	4.48	
IT13-CA06-08	—	6.14	
IT13-CA06-09	—	EM ~~5.85~~ 5.83	
IT13-CA06-10	—	3.09	
IT13-CA06-11	—	6.10	
IT13-CA06-12	—	5.09	
IT13-CA06-13	—	6.49	EM ~~[illegible]~~ light Sheen outside Baylor
IT13-CA06-14	—	6.12	
IT13-CA06-15	—	5.87	
IT13-CA06-16	—	3.21	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2003

PARCEL 37

Water Level Measurements - 6-21-04 2:00pm

CTO# 13, Alameda Point, Alameda, CA Sunny E. Mack

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.37	
IT13-CA06-02	—	5.90	
IT13-CA06-03	—	6.12	
IT13-CA06-04	—	4.15	
IT13-CA06-05	—	3.43	
IT13-CA06-06	—	3.32	
IT13-CA06-07	—	4.38	
IT13-CA06-08	—	6.17	
IT13-CA06-09	—	5.87	
IT13-CA06-10	—	3.02	
IT13-CA06-11	—	6.15	
IT13-CA06-12	—	5.03	
IT13-CA06-13	—	6.54	Strange smell
IT13-CA06-14	—	6.16	
IT13-CA06-15	—	5.79	
IT13-CA06-16	—	3.12	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2(

PARCEL 37

Water Level Measurements - 6-28-04 0630

CTO# 13, Alameda Point, Alameda, CA Rob

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		5.6	
IT13-CA06-02		6.0	
IT13-CA06-03		6.35	
IT13-CA06-04		4.31	
IT13-CA06-05		3.5	
IT13-CA06-06		3.47	
IT13-CA06-07		5.12	
IT13-CA06-08		6.2	
IT13-CA06-09		5.95	
IT13-CA06-10		3.47	
IT13-CA06-11		6.2	
IT13-CA06-12		5.15	
IT13-CA06-13		6.6	
IT13-CA06-14		6.21	
IT13-CA06-15		6.07	
IT13-CA06-16		3.28	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2

PARCEL 37

Water Level Measurements - _____

CTO# 13, Alameda Point, Alameda, CA 7-6-04 0900

IT Proj. # 807181

overcast

Rob

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01		5.55	
IT13-CA06-02		5.9	
IT13-CA06-03		6.3	
IT13-CA06-04		1.78	
IT13-CA06-05		2.13	
IT13-CA06-06		4.45	
IT13-CA06-07		4.48	
IT13-CA06-08		6.2	
IT13-CA06-09		1.88	
IT13-CA06-10		1.89	
IT13-CA06-11		6.2	
IT13-CA06-12		5.15	
IT13-CA06-13		6.5	
IT13-CA06-14		6.15	
IT13-CA06-15		5.85	
IT13-CA06-16		~~5.55~~ 2.1	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	7	9	04
NO.			
SHEET	OF		

PROJECT NAME: CTO 101 PARCEL 37 | PROJECT NO.: 843778

FIELD ACTIVITY SUBJECT: Dissolved Oxygen

DESCRIPTION OF DAILY ACTIVITY AND EVENTS:

PIEZOMETERS

1. 0.08
2. 0.12
3. 0.10
4. 0.12
5. 0.11
6. 0.09
7. 0.76
8. 0.09
9. 0.10
10. 0.09
11. 0.09
12. 0.08
13. 0.08
14. 0.08
15. 0.08
16. 0.10

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

SHAW E&I PERSONNEL ON SITE:

SIGNATURE: E. Mack DATE: 7-9-04

327C-12-98

E. Mac,

PARCEL 37

Water Level Measurements - 7-12-04

CTO# 13, Alameda Point, Alameda, CA 2:00pm

IT Proj. # 807181 Sunny

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.59	
IT13-CA06-02	—	5.98	
IT13-CA06-03	—	6.35	
IT13-CA06-04	—	4.33	
IT13-CA06-05	—	3.47	
IT13-CA06-06	—	3.45	
IT13-CA06-07	—	4.50	
IT13-CA06-08	—	6.21	
IT13-CA06-09	—	5.93	
IT13-CA06-10	—	3.34	
IT13-CA06-11	—	6.16	
IT13-CA06-12	—	5.15	
IT13-CA06-13	—	6.60	
IT13-CA06-14	—	6.21	
IT13-CA06-15	—	5.98	
IT13-CA06-16	—	3.26	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2

PARCEL 37

Water Level Measurements - 7-20-04 9:00 am Sunny

CTO# 13, Alameda Point, Alameda, CA E. Mack

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.73	
IT13-CA06-02	—	5.96	
IT13-CA06-03	—	6.27	
IT13-CA06-04	—	4.13	
IT13-CA06-05	—	3.54	
IT13-CA06-06	—	3.54	
IT13-CA06-07	—	4.58	
IT13-CA06-08	—	6.26	
IT13-CA06-09	—	5.97	
IT13-CA06-10	—	3.12	
IT13-CA06-11	—	6.25	
IT13-CA06-12	—	521	
IT13-CA06-13	—	6.72	
IT13-CA06-14	—	6.30	
IT13-CA06-15	—	5.96	
IT13-CA06-16	—	3.25	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

PARCEL 37

Water Level Measurements - 7-28-04 10:25am

CTO# 13, Alameda Point, Alameda, CA Sunny E. Mack

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.76	
IT13-CA06-02	—	5.97	
IT13-CA06-03	—	6.28	
IT13-CA06-04	—	4.16	
IT13-CA06-05	—	3.34	
IT13-CA06-06	—	3.22	
IT13-CA06-07	—	4.43	
IT13-CA06-08	—	6.24	
IT13-CA06-09	—	5.97	
IT13-CA06-10	—	3.13	
IT13-CA06-11	—	6.36	
IT13-CA06-12	—	5.08	
IT13-CA06-13	—	6.83	
IT13-CA06-14	—	6.17	
IT13-CA06-15	—	6.02	
IT13-CA06-16	—	3.21	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2(

PARCEL 37

Water Level Measurements - 8-2-04 E. Mack

CTO# 13, Alameda Point, Alameda, CA Sunny 7:45

IT Proj. # 807181

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	5.70	
IT13-CA06-02	—	5.86	
IT13-CA06-03	—	6.13	
IT13-CA06-04	—	4.27	
IT13-CA06-05	—	3.22	
IT13-CA06-06	—	3.34	
IT13-CA06-07	—	4.31	
IT13-CA06-08	—	6.03	
IT13-CA06-09	—	5.92	
IT13-CA06-10	—	3.11	
IT13-CA06-11	—	6.13	
IT13-CA06-12	—	5.04	
IT13-CA06-13	—	6.72	
IT13-CA06-14	—	6.12	
IT13-CA06-15	—	5.89	
IT13-CA06-16	—	3.24	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

Note:
ft TOC = feet below top of casing

03/13/2(

Shaw
Shaw Environmental & Infrastructure, Inc.

FIELD ACTIVITY DAILY LOG

DAILY LOG				
	DATE	08	04	04
	NO.			
	SHEET	OF		

PROJECT NAME: CTO 101 - Parcel 37 PROJECT NO.: 843778

FIELD ACTIVITY SUBJECT: Water Levels NEW Wells

DESCRIPTION OF DAILY ACTIVITY AND EVENTS:

DVE
1 4.12
2 4.52
3 4.79
4 3.88

OB
1 4.41
2 4.63
3 4.00

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS: Overcast

IMPORTANT TELEPHONE CALLS:

SHAW E&I PERSONNEL ON SITE:

SIGNATURE: E. Mack DATE: 8-4-04 6:45am

327C-12-98

E. Mack

PARCEL 37

Water Level Measurements - 8-10-04 11:00am

CTO# 13, Alameda Point, Alameda, CA Overcast

IT Proj. # 807161

ID	Depth to Product (ft TOC)	Depth to Water (ft TOC)	Time (24:00)
PIEZOMETERS			
IT13-CA06-01	—	~~6.01~~ EM	6.04
IT13-CA06-02	—	6.12	
IT13-CA06-03	—	6.37	
IT13-CA06-04	—	4.11	
IT13-CA06-05	—	3.42	
IT13-CA06-06	—	3.48	
IT13-CA06-07	—	5.27	
IT13-CA06-08	—	6.07	
IT13-CA06-09	—	5.89	
IT13-CA06-10	—	2.96	
IT13-CA06-11	—	6.12	
IT13-CA06-12	—	5.16	
IT13-CA06-13	—	6.88	strongse smell
IT13-CA06-14	—	6.09	
IT13-CA06-15	—	5.96	
IT13-CA06-16	—	3.38	
EXTRACTION WELLS			
CA06-EXT01			
CA06-EXT02			
CA06-EXT03			
CA06-EXT04			
CA06-EXT05			
CA06-EXT06			
CA06-EXT07			
CA06-EXT08			
CA06-EXT09a			
CA06-EXT09b			
CA06-EXT10a			
CA06-EXT10b			
CA06-EXT11a			
CA06-EXT11b			

DVE

1. —	4.12
2. —	4.55
3. —	3.59
4. —	3.74

DB

—	4.48
2. —	4.70
3. —	3.98

Note:
ft TOC = feet below top of casing

03/13/20

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 8-19-04 7:15am WEATHER: Overcast

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.19	
DVE- 2	—	4.60	
DVE-3	—	3.64	
DVE-4	—	3.81	
OB1	—	4.52	
OB2	—	4.77	
OB3	—	4.04	
IT13-CA06-01	—	6.08	
IT13-CA06-02	—	6.11	
IT13-CA06-03	—	6.44	
IT13-CA06-04	—	4.17	
IT13-CA06-05	—	3.54	
IT13-CA06-06	—	3.52	
IT13-CA06-07	—	4.57	
IT13-CA06-08	—	6.27	
IT13-CA06-09	—	6.05	
IT13-CA06-10	—	3.13	
IT13-CA06-11	—	6.25	
IT13-CA06-12	—	5.20	
IT13-CA06-13	—	6.68	Stronge smell
IT13-CA06-14		6.33	
IT13-CA06-15		6.21	
IT13-CA06-16		3.37	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 8-23-04 10:00am WEATHER: Overcast

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.16	
DVE- 2	—	4.62	
DVE-3	—	3.66	
DVE-4	—	3.83	
OB1	—	4.57	
OB2	—	4.78	
OB3	—	4.05	
IT13-CA06-01	—	~~5.97~~	6.10
IT13-CA06-02	—	~~5.99~~ EM	6.09
IT13-CA06-03	—	6.48	
IT13-CA06-04	—	4.42	
IT13-CA06-05	—	3.55	
IT13-CA06-06	—	3.52	
IT13-CA06-07	—	4.55	
IT13-CA06-08	—	6.5[illegible]	
IT13-CA06-09	—	6.06	
IT13-CA06-10	—	3.08	
IT13-CA06-11	—	6.26	
IT13-CA06-12	—	5.19	
IT13-CA06-13	—	6.71	
IT13-CA06-14	—	6.33	
IT13-CA06-15	—	6.03	
IT13-CA06-16	—	3.38	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 9-1-04 8:30am WEATHER: Overcast

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.19	
DVE- 2	—	4.61	
DVE-3	—	3.65	
DVE-4	—	3.79	
OB1	—	4.49	
OB2	—	4.80	
OB3	—	4.05	
IT13-CA06-01	—	5.79	Heavy sheen outside Boiler
IT13-CA06-02	—	6.05	
IT13-CA06-03	—	6.42	
IT13-CA06-04	—	4.41	
IT13-CA06-05	—	3.57	
IT13-CA06-06	—	EN ~~3.41~~ 3.54	
IT13-CA06-07	—	4.58	
IT13-CA06-08	—	6.32	
IT13-CA06-09	—	6.00	
IT13-CA06-10	—	3.45	
IT13-CA06-11	—	6.27	
IT13-CA06-12	—	5.21	
IT13-CA06-13	—	6.66	
IT13-CA06-14	—	6.33	
IT13-CA06-15	—	6.11	
IT13-CA06-16	—	3.39	Trace amount Stronge odor

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 9-2-04 12:50pm WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.13	
DVE- 2	—	4.55	
DVE-3	—	3.54	
DVE-4	—	3.73	
OB1	—	4.37	
OB2	—	4.64	
OB3	—	4.01	
IT13-CA06-01	~~6~~ —	6.08	
IT13-CA06-02	—	5.81	Heavy sheen
IT13-CA06-03	—	6.36	
IT13-CA06-04	—	4.36	
IT13-CA06-05	—	3.46	
IT13-CA06-06	—	3.48	
IT13-CA06-07	—	4.48	
IT13-CA06-08	—	6.27	
IT13-CA06-09	—	5.98	
IT13-CA06-10	—	3.13	
IT13-CA06-11	—	6.21	
IT13-CA06-12	—	5.14	
IT13-CA06-13	—	6.53	
IT13-CA06-14	—	6.32	
IT13-CA06-15	—	6.09	
IT13-CA06-16	—	3.52	Strange ~~smell~~ EM odor

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 9/3/04 - 0930 WEATHER: Sun

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.15	
DVE- 2	—	4.54	
DVE-3	—	3.60	
DVE-4	—	4.77	
OB1	—	4.58	
OB2	—	4.85	
OB3	—	4.04	
IT13-CA06-01	—	5.67	Product odor
IT13-CA06-02	—	6.01	
IT13-CA06-03	—	3.40	
IT13-CA06-04	—	4.40	
IT13-CA06-05	—	3.51	
IT13-CA06-06	—	3.51	
IT13-CA06-07	—	4.55	
IT13-CA06-08	—	6.42	
IT13-CA06-09	—	6.00	
IT13-CA06-10	—	3.40	
IT13-CA06-11	—	6.26	
IT13-CA06-12	—	5.19	
IT13-CA06-13	—	6.69	
IT13-CA06-14	—	6.33	
IT13-CA06-15	—	6.03	
IT13-CA06-16	—	3.34	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 9-7-04 10:16am WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.14	
DVE- 2	—	4.57	
DVE-3	—	3.58	
DVE-4	—	3.75	
OB1	—	4.34	
OB2	—	4.49	
OB3	—	3.87	
IT13-CA06-01	—	5.71	Lite sheen
IT13-CA06-02	—	6.06	
IT13-CA06-03	—	6.40	
IT13-CA06-04	—	4.37	
IT13-CA06-05	—	3.48	
IT13-CA06-06	—	3.49	
IT13-CA06-07	—	4.52	
IT13-CA06-08	—	6.27	
IT13-CA06-09	—	6.00	
IT13-CA06-10	—	3.42	
IT13-CA06-11	—	6.20	
IT13-CA06-12	—	5.16	
IT13-CA06-13	—	6.53	strongse odor
IT13-CA06-14	—	6.25	
IT13-CA06-15	—	6.07	
IT13-CA06-16	—	3.32	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 9-13-04 12:00pm WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.95	
DVE- 2	—	5.20	
DVE-3	—	—	Vac Truck ops.
DVE-4	—	5.43	
OB1	—	4.55	
OB2	—	4.79	
OB3	—	4.28	
IT13-CA06-01	—	5.72	Lite Sheen
IT13-CA06-02	—	6.08	
IT13-CA06-03	—	—	Plugged
IT13-CA06-04	—	4.52	
IT13-CA06-05	—	4.11	
IT13-CA06-06	—	3.62	
IT13-CA06-07	—	4.59	
IT13-CA06-08	—	6.33	
IT13-CA06-09	—	6.08	
IT13-CA06-10	—	3.53	
IT13-CA06-11	—	6.38	
IT13-CA06-12	—	5.32	
IT13-CA06-13	—	6.70	
IT13-CA06-14	—	6.35	
IT13-CA06-15	—	6.10	
IT13-CA06-16	—	4.03	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 9-20-04 11:05 am WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.29	
DVE- 2	—	4.69	~~Lite sheen~~ EM
DVE-3	—	3.65	
DVE-4	—	3.89	
OB1	—	4.67	
OB2	—	4.92	
OB3	—	4.36	
IT13-CA06-01	—	5.80	Lite sheen
IT13-CA06-02	—	6.17	
IT13-CA06-03	—	—	unable to get water leve Because of Bid sparge BW 4
IT13-CA06-04	—	4.43	
IT13-CA06-05	—	3.64	
IT13-CA06-06	—	3.62	
IT13-CA06-07	—	4.66	
IT13-CA06-08	—	6.40	
IT13-CA06-09	—	6.14	
IT13-CA06-10	—	3.27	
IT13-CA06-11	—	6.25	
IT13-CA06-12	—	5.32	
IT13-CA06-13	—	6.81	strange odor
IT13-CA06-14	—	6.42	
IT13-CA06-15	—	6.16	
IT13-CA06-16	—	3.66	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 9-27-04 10:00 am WEATHER: Overcast

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE-1	—	4.18	
DVE-2	—	4.63	
DVE-3	—	3.61	
DVE-4	—	~~4.58~~	3.88
OB1	—	4.58	
OB2	—	4.87	
OB3	—	4.24	
IT13-CA06-01	—	5.77	
IT13-CA06-02	—	6.11	
IT13-CA06-03	—	—	Plugged
IT13-CA06-04	—	4.44	
IT13-CA06-05	—	3.56	
IT13-CA06-06	—	3.44	
IT13-CA06-07	—	4.57	
IT13-CA06-08	—	6.33	
IT13-CA06-09	—	6.11	
IT13-CA06-10	—	3.22	
IT13-CA06-11	—	6.29	
IT13-CA06-12	—	5.21	
IT13-CA06-13	—	6.63	
IT13-CA06-14	—	6.52	
IT13-CA06-15	—	6.13	
IT13-CA06-16	—	3.67	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 10-5-04 12:30 pm WEATHER: overcast

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.23	
DVE- 2	—	4.76	
DVE-3	—	3.91	
DVE-4	—	4.58	
OB1	—	4.49	
OB2	—	4.33	
OB3	—	4.64	
IT13-CA06-01	—	5.81	
IT13-CA06-02	—	6.09	
IT13-CA06-03	—	—	Plugged
IT13-CA06-04	—	4.43	
IT13-CA06-05	—	3.58	
IT13-CA06-06	—	3.55	
IT13-CA06-07	—	459	
IT13-CA06-08	—	6.33	
IT13-CA06-09	—	6.10	
IT13-CA06-10	—	3.13	
IT13-CA06-11	—	6.44	
IT13-CA06-12	—	5.27	
IT13-CA06-13	—	6.68	
IT13-CA06-14	—	6.23	
IT13-CA06-15	—	6.08	
IT13-CA06-16	—	3.49	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 10/15/04 -0730 WEATHER: Sun

COLLECTED BY: Patom

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	4.31	
DVE- 2	—	4.71	
DVE-3	—	3.77	
DVE-4	—	3.93	
OB1	—	4.59	
OB2	—	4.05	
OB3	—	3.69	
IT13-CA06-01	—	5.86	Product Sheen
IT13-CA06-02	—	6.16	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	4.52	
IT13-CA06-05	—	3.64	
IT13-CA06-06	—	3.63	
IT13-CA06-07	—	4.69	
IT13-CA06-08	—	6.45	
IT13-CA06-09	—	6.12	
IT13-CA06-10	—	3.60	
IT13-CA06-11	—	6.08	
IT13-CA06-12	—	5.31	
IT13-CA06-13	—	6.48	
IT13-CA06-14	—	6.37	
IT13-CA06-15	—	6.24	
IT13-CA06-16	—	3.47	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 10/20/04 - 1100

WEATHER: Sun

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.85	
DVE- 2	—	4.19	
DVE-3	—	3.17	
DVE-4	—	3.45	
OB1	—	4.25	
OB2	—	4.51	
OB3	—	3.66	
IT13-CA06-01	—	5.06	Very Light Sheen
IT13-CA06-02	—	5.15	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	3.95	
IT13-CA06-05	—	3.25	
IT13-CA06-06	—	3.31	
IT13-CA06-07	—	4.16	
IT13-CA06-08	—	6.02	
IT13-CA06-09	—	5.62	
IT13-CA06-10	—	3.22	
IT13-CA06-11	—	5.44	
IT13-CA06-12	—	4.86	
IT13-CA06-13	—	6.30	
IT13-CA06-14	—	5.73	
IT13-CA06-15	—	5.55	
IT13-CA06-16	—	3.00	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 10/27/04 - 1030

WEATHER: cloudy

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.67	
DVE- 2	—	3.97	
DVE-3	—	2.91	
DVE-4	—	3.19	
OB1	—	3.57	
OB2	—	3.08	
OB3	—	2.55	
IT13-CA06-01	—	4.93	Strong odor
IT13-CA06-02	—	5.17	
IT13-CA06-03	—		Plug
IT13-CA06-04	—	3.90	
IT13-CA06-05	—	3.05	
IT13-CA06-06	—	3.07	
IT13-CA06-07	—	4.01	
IT13-CA06-08	—	5.80	
IT13-CA06-09	—	5.25	
IT13-CA06-10	—	2.86	
IT13-CA06-11	—	5.34	
IT13-CA06-12	—	4.67	
IT13-CA06-13	—	5.76	
IT13-CA06-14	—	5.62	
IT13-CA06-15	—	5.32	
IT13-CA06-16	—	2.78	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11/1/04 - 1100

WEATHER: Sun

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.69	
DVE- 2	—	3.98	
DVE-3	—	2.97	Mild Bubbling
DVE-4	—	3.24	
OB1	—	4.19	
OB2	—	4.40	
OB3	—	4.08	
IT13-CA06-01	—	5.17	
IT13-CA06-02	—	5.56	
IT13-CA06-03	—	—	
IT13-CA06-04	—	4.05	
IT13-CA06-05	—	3.11	
IT13-CA06-06	—	3.10	
IT13-CA06-07	—	4.13	
IT13-CA06-08	—	5.88	
IT13-CA06-09	—	5.53	
IT13-CA06-10	—	2.98	can hear Bubbling
IT13-CA06-11	—	5.72	
IT13-CA06-12	—	4.78	
IT13-CA06-13	—	6.24	strong odor
IT13-CA06-14	—	5.87	
IT13-CA06-15	—	4.55	
IT13-CA06-16	—	2.85	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11/8/04 – ~~0800~~ 0930

WEATHER: cloudy

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.71	
DVE- 2	—	4.11	
DVE-3	—	3.08	Bubbling
DVE-4	—	3.28	
OB1	—	4.09	
OB2	—	4.34	
OB3	—	3.99	
IT13-CA06-01	—	5.03	
IT13-CA06-02	—	5.42	
IT13-CA06-03	—	—	
IT13-CA06-04	—	4.00	
IT13-CA06-05	—	3.11	
IT13-CA06-06	—	3.05	
IT13-CA06-07	—	4.06	
IT13-CA06-08	—	5.75	
IT13-CA06-09	—	5.45	
IT13-CA06-10	—	3.04	Bubbling
IT13-CA06-11	—	5.76	
IT13-CA06-12	—	4.74	
IT13-CA06-13	—	6.22	
IT13-CA06-14	—	5.74	
IT13-CA06-15	—	5.38	
IT13-CA06-16	—	2.87	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11/12/04 – 0930 WEATHER: Partly/cloudy

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			
DVE- 2			
DVE-3			
DVE-4			
OB1			
OB2			
OB3			
IT13-CA06-01	—	—	No Product
IT13-CA06-02			
IT13-CA06-03			
IT13-CA06-04			
IT13-CA06-05			
IT13-CA06-06			
IT13-CA06-07			
IT13-CA06-08			
IT13-CA06-09			
IT13-CA06-10			
IT13-CA06-11			
IT13-CA06-12			
IT13-CA06-13	—	—	No Product
IT13-CA06-14			
IT13-CA06-15			
IT13-CA06-16			

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11/15/04 - 700

WEATHER: Cloudy

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.55	
DVE- 2	—	3.94	
DVE-3	—	2.96	Bubbling
DVE-4	—	3.14	
OB1	—	3.37	
OB2	—	3.52	
OB3	—	2.89	
IT13-CA06-01	—	~~3.37~~	4.65 (PM)
IT13-CA06-02	—	5.09	
IT13-CA06-03	—	—	
IT13-CA06-04	—	3.75	
IT13-CA06-05	—	2.94	
IT13-CA06-06	—	2.88	
IT13-CA06-07	—	3.86	
IT13-CA06-08	—	5.49	
IT13-CA06-09	—	5.07	
IT13-CA06-10	—	2.80	
IT13-CA06-11	—	5.46	
IT13-CA06-12	—	4.51	
IT13-CA06-13	—	5.73	
IT13-CA06-14	—	5.38	
IT13-CA06-15	—	5.02	
IT13-CA06-16	—	2.68	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 12/3/04 - 0830 WEATHER: sun / cold

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.82	
DVE- 2	—	4.21	Slight sheen
DVE-3	—	3.11	Bubbling
DVE-4	—	3.37	
OB1	—	3.80	
OB2	—	3.94	
OB3	—	3.51	
IT13-CA06-01	—	5.10	
IT13-CA06-02	—	5.50	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	3.99	
IT13-CA06-05	—	3.18	
IT13-CA06-06	—	3.19	
IT13-CA06-07	—	4.17	
IT13-CA06-08	—	5.82	
IT13-CA06-09	—	5.46	
IT13-CA06-10	—	2.96	
IT13-CA06-11	—	5.77	
IT13-CA06-12	—	4.83	
IT13-CA06-13	—	6.02	
IT13-CA06-14	—	5.79	
IT13-CA06-15	—	5.47	
IT13-CA06-16	—	2.95	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 12/7/04 - 800

WEATHER: Cloudy/Rain

COLLECTED BY: PatM.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.63	
DVE- 2	—	3.90	
DVE-3	—	2.91	Bubbling
DVE-4	—	3.17	
OB1	—	3.72	
OB2	—	3.91	
OB3	—	3.35	
IT13-CA06-01	—	4.18	
IT13-CA06-02	—	4.22	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	3.89	
IT13-CA06-05	—	3.00	
IT13-CA06-06	—	3.08	
IT13-CA06-07	—	3.92	
IT13-CA06-08	—	5.68	
IT13-CA06-09	—	4.92	
IT13-CA06-10	—	2.81	Bubbling
IT13-CA06-11	—	5.43	
IT13-CA06-12	—	4.63	
IT13-CA06-13	—	5.80	
IT13-CA06-14	—	5.39	
IT13-CA06-15	—	4.44	
IT13-CA06-16	—	2.71	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 12/13/04 – 0830 WEATHER: Sun

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.28	
DVE- 2	—	3.62	Bio Growth
DVE-3	—	2.65	Bubbling
DVE-4	—	2.85	
OB1	—	3.58	
OB2	—	3.87	
OB3	—	3.17	
IT13-CA06-01	—	5.01	Sheen
IT13-CA06-02	—	5.23	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	3.51	
IT13-CA06-05	—	2.86	
IT13-CA06-06	—	2.66	
IT13-CA06-07	—	3.62	
IT13-CA06-08	—	5.12	
IT13-CA06-09	—	4.80	
IT13-CA06-10	—	2.51	Bubbling
IT13-CA06-11	—	5.21	
IT13-CA06-12	—	4.30	
IT13-CA06-13	—	5.64	
IT13-CA06-14	—	5.02	
IT13-CA06-15	—	5.73	
IT13-CA06-16	—	2.40	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 12/20/04 — 0930 WEATHER: overcast

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.40	
DVE- 2	—	3.77	
DVE-3	—	2.80	
DVE-4	—	2.95	
OB1	—	3.66	
OB2	—	3.98	
OB3	—	3.35	
IT13-CA06-01	—	4.65	
IT13-CA06-02	—	5.02	
IT13-CA06-03	—	—	
IT13-CA06-04	—	3.65	
IT13-CA06-05	—	2.76	
IT13-CA06-06	—	2.78	
IT13-CA06-07	—	3.78	
IT13-CA06-08	—	5.41	
IT13-CA06-09	—	5.08	
IT13-CA06-10	—	2.62	
IT13-CA06-11	—	5.37	
IT13-CA06-12	—	4.42	
IT13-CA06-13	—	5.82	
IT13-CA06-14	—	5.35	
IT13-CA06-15	—	4.98	
IT13-CA06-16	—	2.55	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 12/29/04 - 1000

WEATHER: Rain/cloudy/sun

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	2.75	
DVE- 2	—	3.08	
DVE-3	—	1.95	
DVE-4	—	2.24	
OB1	—	2.63	
OB2	—	2.79	
OB3	—	2.16	
IT13-CA06-01	—	3.20	
IT13-CA06-02	—	3.12	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	2.94	
IT13-CA06-05	—	2.16	
IT13-CA06-06	—	2.20	
IT13-CA06-07	—	2.82	
IT13-CA06-08	—	4.08	
IT13-CA06-09	—	3.76	
IT13-CA06-10	—	1.89	
IT13-CA06-11	—	4.48	
IT13-CA06-12	—	3.65	
IT13-CA06-13	—	4.69	
IT13-CA06-14	—	3.55	
IT13-CA06-15	—	3.55	
IT13-CA06-16	—	1.84	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 1/10/05 - 0730 WEATHER: cloudy

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks:
DVE- 1	—	2.43	
DVE- 2	—	2.67	
DVE-3	—	1.56	
DVE-4	—	1.89	
OB1	—	2.46	
OB2	—	2.65	
OB3	—	1.89	
IT13-CA06-01	—	3.33	odor
IT13-CA06-02	—	3.26	
IT13-CA06-03	—	—	
IT13-CA06-04	—	2.48	
IT13-CA06-05	—	1.68	
IT13-CA06-06	—	1.69	
IT13-CA06-07	—	2.61	
IT13-CA06-08	—	2.92	
IT13-CA06-09	—	2.79	
IT13-CA06-10	—	1.68	
IT13-CA06-11	—	3.46	
IT13-CA06-12	—	2.10	
IT13-CA06-13	—	4.57	
IT13-CA06-14	—	3.71	
IT13-CA06-15	—	3.72	
IT13-CA06-16	—	1.48	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 1/21/05 - 10:00 AM WEATHER: Sunny

COLLECTED BY: Scott Standridge

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1		3.04	
DVE- 2		3.25	
DVE-3		2.21	
DVE-4		2.41	
OB1		2.88	
OB2		3.17	
OB3		2.07	
IT13-CA06-01		4.21	Sheen
IT13-CA06-02		4.61	
IT13-CA06-03		.50	
IT13-CA06-04		2.98	
IT13-CA06-05		2.21	
IT13-CA06-06		2.27	
IT13-CA06-07		3.27	
IT13-CA06-08		4.86	
IT13-CA06-09		4.63	
IT13-CA06-10		2.03	
IT13-CA06-11		4.70	
IT13-CA06-12		3.93	
IT13-CA06-13		5.12	
IT13-CA06-14		4.89	
IT13-CA06-15		4.51	
IT13-CA06-16		2.01	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 1/26/05 - 0700 WEATHER: Rain

COLLECTED BY: PatM

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.06	
DVE- 2	—	3.15	
DVE-3	—	2.24	
DVE-4	—	2.47	
OB1	—	3.06	
OB2	—	3.32	
OB3	—	2.72	
IT13-CA06-01	—	4.42	sheen
IT13-CA06-02	—	4.83	
IT13-CA06-03	—	—	
IT13-CA06-04	—	3.05	
IT13-CA06-05	—	2.25	
IT13-CA06-06	—	2.32	
IT13-CA06-07	—	3.28	
IT13-CA06-08	—	4.71	
IT13-CA06-09	—	4.30	
IT13-CA06-10	—	1.95	
IT13-CA06-11	—	5.01	
IT13-CA06-12	—	3.95	
IT13-CA06-13	—	5.18	sheen
IT13-CA06-14	—	4.72	
IT13-CA06-15	—	4.76	
IT13-CA06-16	—	1.98	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 1/31/05 - 0905 WEATHER: Sun

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	2.97	
DVE- 2	—	3.32	
DVE-3	—	2.33	
DVE-4	—	2.55	
OB1	—	3.05	
OB2	—	3.27	
OB3	—	2.93	
IT13-CA06-01	—	4.09	
IT13-CA06-02	—	4.52	
IT13-CA06-03	—	—	
IT13-CA06-04	—	3.08	
IT13-CA06-05	—	2.42	
IT13-CA06-06	—	2.36	
IT13-CA06-07	—	3.36	
IT13-CA06-08	—	4.80	
IT13-CA06-09	—	4.53	
IT13-CA06-10	—	1.95	
IT13-CA06-11	—	4.77	
IT13-CA06-12	—	4.01	
IT13-CA06-13	—	5.14	Sheen
IT13-CA06-14	—	4.76	
IT13-CA06-15	—	4.47	
IT13-CA06-16	—	2.11	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 2/7/05 - 0830 WEATHER: cloudy

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			
DVE- 2			
DVE-3			
DVE-4			
OB1	—	3.35	
OB2	—	3.58	
OB3	—	2.83	
IT13-CA06-01	—	4.31	Bio scum
IT13-CA06-02	—	4.81	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	3.31	
IT13-CA06-05	—	2.44	
IT13-CA06-06	—	2.47	
IT13-CA06-07	—	3.50	
IT13-CA06-08	—	5.10	
IT13-CA06-09	—	4.85	
IT13-CA06-10	—	2.36	
IT13-CA06-11	—	5.23	
IT13-CA06-12	—	4.12	
IT13-CA06-13	—	5.36	Sheen/Product on inside of casing walls
IT13-CA06-14	—	5.11	
IT13-CA06-15	—	4.76	
IT13-CA06-16	—	2.04	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 2/14/05 - 0910 WEATHER: cloudy

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			BIO Sparge
DVE- 2			
DVE-3			
DVE-4			
OB1	—	2.45	
OB2	—	2.64	
OB3	—	2.01	
IT13-CA06-01	—	4.56	sheen
IT13-CA06-02	—	~~2.64~~ (PM)	4.96 (PM)
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	3.43	
IT13-CA06-05	—	2.66	
IT13-CA06-06	—	2.71	
IT13-CA06-07	—	3.69	
IT13-CA06-08	—	5.29	
IT13-CA06-09	—	4.78	
IT13-CA06-10	—	2.11	
IT13-CA06-11	—	4.86	
IT13-CA06-12	—	4.35	
IT13-CA06-13	—	5.05	BIO Scum / no odor Looks like product
IT13-CA06-14	—	5.23	
IT13-CA06-15	—	4.91	
IT13-CA06-16	—	2.47	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 2/25/05 - 0705 WEATHER: cloudy

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			BIO
DVE- 2			
DVE-3			Sparge
DVE-4			
OB1	—	3.05	
OB2	—	3.31	
OB3	—	2.27	
IT13-CA06-01	—	3.91	strong smell of product
IT13-CA06-02	—	4.37	
IT13-CA06-03	—	—	
IT13-CA06-04	—	2.95	
IT13-CA06-05	—	2.20	
IT13-CA06-06	—	3.58	
IT13-CA06-07	—	3.19	
IT13-CA06-08	—	4.61	
IT13-CA06-09	—	4.47	
IT13-CA06-10	—	1.85	
IT13-CA06-11	—	4.68	Scum
IT13-CA06-12	—	5.24	Scum
IT13-CA06-13	—	5.05	Scum
IT13-CA06-14	—	4.62	
IT13-CA06-15	—	4.35	
IT13-CA06-16	—	1.95	Scum / smells like product

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 3/2/05 - 0650 WEATHER: cloudy

COLLECTED BY: Pat M

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			BIO
DVE- 2			
DVE-3			Sparge
DVE-4			
OB1	—	2.28	
OB2	—	2.34	
OB3	—	1.78	
IT13-CA06-01	—	3.10	
IT13-CA06-02	—	3.14	
IT13-CA06-03	—		Plug
IT13-CA06-04	—	2.47	
IT13-CA06-05	—	1.82	
IT13-CA06-06	—	3.10	
IT13-CA06-07	—	2.68	
IT13-CA06-08	—	3.71	
IT13-CA06-09	—	3.36	
IT13-CA06-10	—	1.10	
IT13-CA06-11	—	4.29	
IT13-CA06-12	—	3.36	
IT13-CA06-13	—	4.19	Scum
IT13-CA06-14	—	3.58	
IT13-CA06-15	—	3.31	
IT13-CA06-16	—	1.40	Scum / smells like product * Possible product sheen

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 3/7/05 -0730 WEATHER: overcast

COLLECTED BY: Patm.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			BIO
DVE- 2			
DVE-3			Sparge
DVE-4			
OB1	—	2.67	
OB2	—	2.27	
OB3	—	1.72	
IT13-CA06-01	—	3.76	Sheen
IT13-CA06-02	—	4.18	
IT13-CA06-03	—	—	
IT13-CA06-04	—	2.83	
IT13-CA06-05	—	2.03	
IT13-CA06-06	—	1.95	
IT13-CA06-07	—	2.96	
IT13-CA06-08	—	4.46	
IT13-CA06-09	—	4.32	
IT13-CA06-10	—	1.45	
IT13-CA06-11	—	4.48	
IT13-CA06-12	—	3.58	
IT13-CA06-13	—	4.85	Scum and product sheen
IT13-CA06-14	—	4.42	
IT13-CA06-15	—	4.21	
IT13-CA06-16	—	1.79	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 3/14/05 -930

WEATHER: Sun / windy

COLLECTED BY: Patm.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			BIO
DVE- 2			
DVE-3			Sparge
DVE-4			
OB1	—	3.43	
OB2	—	3.65	
OB3	—	2.86	
IT13-CA06-01	—	4.39	Sheen
IT13-CA06-02	—	4.79	
IT13-CA06-03	—	—	
IT13-CA06-04	—	3.17	
IT13-CA06-05	—	2.43	
IT13-CA06-06	—	2.44	
IT13-CA06-07	—	3.45	
IT13-CA06-08	—	5.01	
IT13-CA06-09	—	4.81	
IT13-CA06-10	—	2.04	
IT13-CA06-11	—	5.02	
IT13-CA06-12	—	3.99	
IT13-CA06-13	—	5.36	Bio scum
IT13-CA06-14	—	5.02	
IT13-CA06-15	—	4.79	
IT13-CA06-16	—	2.06	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 3/31/05 - 1230 WEATHER: Sun

COLLECTED BY: Patm

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			
DVE- 2			
DVE-3			
DVE-4			
OB1	—	3.00	
OB2	—	3.25	
OB3	—	2.28	
IT13-CA06-01	—	3.97	
IT13-CA06-02	—	4.36	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	2.90	
IT13-CA06-05	—	2.24	
IT13-CA06-06	—	2.21	
IT13-CA06-07	—	3.18	
IT13-CA06-08	—	4.62	
IT13-CA06-09	—	4.42	
IT13-CA06-10	—	1.84	
IT13-CA06-11	—	4.62	
IT13-CA06-12	—	3.82	
IT13-CA06-13	—	4.96	Scum
IT13-CA06-14	—	4.60	
IT13-CA06-15	—	4.37	
IT13-CA06-16	—	1.86	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 7/4/05 - 0710 WEATHER: Sun

COLLECTED BY: Patti

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			
DVE- 2			
DVE-3			
DVE-4			
OB1	—	2.75	
OB2	—	2.87	
OB3	—	1.72	
IT13-CA06-01	—	3.66	
IT13-CA06-02	—	4.06	
IT13-CA06-03	—		Plug
IT13-CA06-04	—	2.96	
IT13-CA06-05	—	2.24	
IT13-CA06-06	—	2.25	
IT13-CA06-07	—	3.20	
IT13-CA06-08	—	4.57	
IT13-CA06-09	—	4.21	
IT13-CA06-10	—	1.74	
IT13-CA06-11	—	4.75	
IT13-CA06-12	—	3.91	
IT13-CA06-13	—	4.90	Smell of product / No visible trace
IT13-CA06-14	—	4.43	
IT13-CA06-15	—	4.03	
IT13-CA06-16	—	1.88	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 4-11-05 — 0905 WEATHER: Cloudy

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			
DVE- 2			
DVE-3			
DVE-4			
OB1	—	3.17	
OB2	—	3.40	
OB3	—	2.02	
IT13-CA06-01	—	4.14	Light Sheen
IT13-CA06-02	—	4.56	
IT13-CA06-03	—	—	Plug
IT13-CA06-04	—	3.05	
IT13-CA06-05	—	2.35	
IT13-CA06-06	—	2.36	
IT13-CA06-07	—	3.30	
IT13-CA06-08	—	4.81	
IT13-CA06-09	—	4.60	
IT13-CA06-10	—	1.85	
IT13-CA06-11	—	4.85	
IT13-CA06-12	—	3.94	
IT13-CA06-13	—	5.19	Looks like scum / smells like Product
IT13-CA06-14	—	4.77	
IT13-CA06-15	—	4.53	
IT13-CA06-16	—	2.02	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 6-2-05 - 3:30 WEATHER: Sun

COLLECTED BY: PatM.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			
DVE- 2			
DVE-3			
DVE-4			
OB1	—	3.79	
OB2	—	4.08	
OB3	—	3.44	
IT13-CA06-01	—	4.96	Trace amount of product
IT13-CA06-02	—	5.41	
IT13-CA06-03	—	2.48	
IT13-CA06-04	—	3.61	
IT13-CA06-05	—	2.87	
IT13-CA06-06	—	2.93	
IT13-CA06-07	—	3.88	
IT13-CA06-08	—	5.52	
IT13-CA06-09	—	5.38	
IT13-CA06-10	—	2.45	
IT13-CA06-11	—	5.73	
IT13-CA06-12	—	4.52	
IT13-CA06-13	—	5.96	
IT13-CA06-14	—	5.51	
IT13-CA06-15	—	5.34	
IT13-CA06-16	—	2.65	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 7-1-05 - 0730 WEATHER: overcast

COLLECTED BY: Pat M.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1			
DVE- 2			
DVE-3			
DVE-4			
OB1	—	5.73	
OB2	—	4.13	
OB3	—	3.46	
IT13-CA06-01	—	5.12	
IT13-CA06-02	—	5.54	
IT13-CA06-03	—	—	
IT13-CA06-04	—	3.79	
IT13-CA06-05	—	—	
IT13-CA06-06	—	2.70	
IT13-CA06-07	—	4.01	
IT13-CA06-08	—	5.75	
IT13-CA06-09	—	5.47	
IT13-CA06-10	—	2.45	
IT13-CA06-11	—	5.76	
IT13-CA06-12	—	4.63	
IT13-CA06-13	—	6.16	Bio scum/Product odor
IT13-CA06-14	—	5.78	
IT13-CA06-15	—	5.52	
IT13-CA06-16	—	2.57	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 8/4/05 - 10:45

WEATHER: Sun

COLLECTED BY: Patm.

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.36	
DVE- 2	—	3.97	
DVE-3	—	3.25	
DVE-4	—	3.06	
OB1	—	4.15	
OB2	—	4.19	
OB3	—	3.49	
IT13-CA06-01	—	5.37	Slight product sheen
IT13-CA06-02	—	5.80	
IT13-CA06-03	—	—	Capped
IT13-CA06-04	—	4.02	
IT13-CA06-05	—	—	Capped
IT13-CA06-06	—	2.78	
IT13-CA06-07	—	3.91	
IT13-CA06-08	—	5.85	
IT13-CA06-09	—	5.78	
IT13-CA06-10	—	2.95	
IT13-CA06-11	—	5.84	
IT13-CA06-12	—	4.69	
IT13-CA06-13	—	6.37	
IT13-CA06-14	—	5.93	
IT13-CA06-15	—	—	unable to locate. Field is overgrown, but could have been destroyed by vandals
IT13-CA06-16	—	2.86	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 10-4-05 10:00am WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE-1	—	3.75	
DVE-2	—	4.14	
DVE-3	—	3.38	
DVE-4	—	3.39	
OB1	—	4.41	
OB2	—	4.4	
OB3	—	4.0	
IT13-CA06-01	—	3.05	PZ is broken
IT13-CA06-02	—	5.48	
IT13-CA06-03	—	3.21	
IT13-CA06-04	—	4.25	
IT13-CA06-05	—	3.40	
IT13-CA06-06	—	3.39	
IT13-CA06-07	—	4.48	
IT13-CA06-08	—	6.23	
IT13-CA06-09	—	6.0	
IT13-CA06-10	—	3.35	
IT13-CA06-11	—	6.18	
IT13-CA06-12	—	5.10	
IT13-CA06-13	—	6.58	Strong odor
IT13-CA06-14	—	6.24	
IT13-CA06-15	—	6.11	
T13-CA06-16	—	3.28	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11-2-05 8:00am WEATHER: Overcast

COLLECTED BY: Eddie Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.77	
DVE- 2	—	3.46	
DVE-3	—	3.55	
DVE-4	—	3.41	
OB1	—	4.52	
OB2	—	4.75	
OB3	—	4.03	
IT13-CA06-01	—	5.75	Streaks of Product
IT13-CA06-02	~~5.97~~	5.97	
IT13-CA06-03	—	6	
IT13-CA06-04	—	4.07	
IT13-CA06-05	—	3.74	
IT13-CA06-06	—	3.49	
IT13-CA06-07	—	449	
IT13-CA06-08	—	5.93	
IT13-CA06-09	—	6.11	
IT13-CA06-10	—	3.08	
IT13-CA06-11	—	—	blocked up with dirt
IT13-CA06-12	—	5.12	
IT13-CA06-13	—	6.63	
IT13-CA06-14	—	6.17	
IT13-CA06-15	—	6.09	
IT13-CA06-16	—	3.37	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11-10-05 10:30am WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.5	
DVE- 2	—	—	The Lock is Frozen
DVE-3	—	3.06	
DVE-4	—	3.12	
OB1	—	4.13	
OB2	—	—	The Lock is frozen
OB3	—	3.66	
IT13-CA06-01	—	5.25	Strong odor
IT13-CA06-02	—	5.97	
IT13-CA06-03	—	5.41	
IT13-CA06-04	—	3.89	
IT13-CA06-05	—	3.18	
IT13-CA06-06	—	3.16	
IT13-CA06-07	—	4.23	
IT13-CA06-08	—	5.99	
IT13-CA06-09	—	5.63	
IT13-CA06-10	—	3.15	
IT13-CA06-11	—	5.77	
IT13-CA06-12	—	4.88	
IT13-CA06-13	—	6.26	Strong odor
IT13-CA06-14	—	5.94	
IT13-CA06-15	—	5.75	
IT13-CA06-16	—	2.98	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11-18-05 7:30 am WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.47	
DVE- 2	—	3.79	
DVE-3	—	3.11	
DVE-4	—	3.28	
OB1	—	4.37	
OB2	—	4.76	
OB3	—	3.92	
IT13-CA06-01	—	5.53	Strong odor
IT13-CA06-02	—	6.02	
IT13-CA06-03	—	5.33	
IT13-CA06-04	—	3.77	
IT13-CA06-05	—	3.21	
IT13-CA06-06	—	2.98	
IT13-CA06-07	—	4.39	
IT13-CA06-08	—	6.12	
IT13-CA06-09	—	5.71	
IT13-CA06-10	—	—	The fence is lock & Pat has The Key.
IT13-CA06-11	—	5.83	
IT13-CA06-12	—	5.11	
IT13-CA06-13	—	6.47	Strong odor
IT13-CA06-14	—	6.03	
IT13-CA06-15	—	6.01	
IT13-CA06-16	—	3.04	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11-22-05 12:00pm WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.58	
DVE- 2	—	4.11	
DVE-3	—	3.17	
DVE-4	—	3.22	
OB1	—	4.24	
OB2	—	4.5	
OB3	—	3.77	
IT13-CA06-01	—	5.41	odor
IT13-CA06-02	—	6.09	
IT13-CA06-03	—	5.73	
IT13-CA06-04	—	4.03	
IT13-CA06-05	—	3.26	
IT13-CA06-06	—	3.27	
IT13-CA06-07	—	4.33	
IT13-CA06-08	—	6.07	
IT13-CA06-09	—	5.87	
IT13-CA06-10	—	2.98	
IT13-CA06-11	—	5.95	
IT13-CA06-12	—	4.97	
IT13-CA06-13	—	6.37	odor
IT13-CA06-14	—	6.05	
IT13-CA06-15	—	5.78	switch
IT13-CA06-16	—	3.09	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 11/30/05 - 0830 WEATHER: Cloudy

COLLECTED BY: Patm

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.36	
DVE- 2	—	3.81	
DVE-3	—	2.87	
DVE-4	—	3.01	
OB1	—	3.85	
OB2	—	4.08	
OB3	—	3.37	
IT13-CA06-01	—	4.78	Bio Scum/
IT13-CA06-02	—	5.62	
IT13-CA06-03	—	5.31	
IT13-CA06-04	—	~~2.95~~	3.84 PM
IT13-CA06-05	—	3.10	
IT13-CA06-06	—	3.08	
IT13-CA06-07	—	3.94	
IT13-CA06-08	—	5.69	
IT13-CA06-09	—	5.29	
IT13-CA06-10	—	2.94	
IT13-CA06-11	—	5.49	
IT13-CA06-12	—	4.65	
IT13-CA06-13	—	5.97	Bio Scum/ Product odor NO visible ~~sm~~ sign
IT13-CA06-14	—	5.85	
IT13-CA06-15	—	5.39	
IT13-CA06-16	—	2.82	Bio Scum

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 1-6-06 8:00am WEATHER: Sunny

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	2.06	
DVE- 2	—	2.55	
DVE-3	—	1.61	
DVE-4	—	1.68	
OB1	—	2.6	
OB2	—	2.84	
OB3	—	2.08	
IT13-CA06-01	—	3.49	
IT13-CA06-02	—	4.16	
IT13-CA06-03	—	4	
IT13-CA06-04	—	2.49	
IT13-CA06-05	—	1.76	
IT13-CA06-06	—	1.68	
IT13-CA06-07	—	2.71	
IT13-CA06-08	—	4.17	
IT13-CA06-09	—	4.09	
IT13-CA06-10	—	1.78	
IT13-CA06-11	—	4.34	
IT13-CA06-12	—	3.36	
IT13-CA06-13	4.75	4.77	Heavy Sheen on the outside of the Baylor Bailed out
IT13-CA06-14	—	4.11	
IT13-CA06-15	—	4.04	
IT13-CA06-16	—	1.55	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 2-3-06 8:30am

WEATHER: Overcast

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	2.29	
DVE- 2	—	2.7	
DVE-3	—	1.77	
DVE-4	—	1.87	
OB1	—	2.62	
OB2	—	2.86	
OB3	—	2.16	
IT13-CA06-01	—	3.4	
IT13-CA06-02	—	4.16	
IT13-CA06-03	—	4.16	
IT13-CA06-04	—	2.69	
IT13-CA06-05	—	2.04	
IT13-CA06-06	—	1.98	
IT13-CA06-07	—	2.94	
IT13-CA06-08	—	4.25	
IT13-CA06-09	—	4.07	
IT13-CA06-10	—	1.74	
IT13-CA06-11	—	4.39	
IT13-CA06-12	—	3.59	
IT13-CA06-13	4.71	4.72	Heavy sheen
IT13-CA06-14	—	4.16	
IT13-CA06-15	—	3.93	
IT13-CA06-16	—	1.68	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 3-1-06 1030am

WEATHER: Sun

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	2.34	
DVE- 2	—	2.71	
DVE-3	—	2.02	
DVE-4	—	1.89	
OB1	—	2.59	
OB2	—	2.80	
OB3	—	3.11	
IT13-CA06-01	—	3.41	
IT13-CA06-02	—	4	
IT13-CA06-03	—	4.04	
IT13-CA06-04	—	2.34	
IT13-CA06-05	—	2.05	
IT13-CA06-06	—	2.03	
IT13-CA06-07	—	2.96	
IT13-CA06-08	—	4.16	
IT13-CA06-09	—	3.96	
IT13-CA06-10	—	1.76	
IT13-CA06-11	—	4.49	
IT13-CA06-12	—	3.62	
IT13-CA06-13	4.66	4.66	lite sheen strong odor
IT13-CA06-14	—	4.01	
IT13-CA06-15	—	3.86	
IT13-CA06-16	—	1.68	

GROUNDWATER MONITORING LOG FORM
PARCEL 37, ALAMEDA POINT, ALAMEDA, CALIFORNIA

DATE & TIME: 4-3-06 12:00pm

WEATHER: Overcast/Rain

COLLECTED BY: E. Mack

Well ID	Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Notes/Remarks
DVE- 1	—	3.27	
DVE- 2	—	3.22	
DVE-3	—	3.08	
DVE-4	—	2.97	
OB1	—	3.39	
OB2	—	3.11	
OB3	—	3.12	
IT13-CA06-01	—	4.97	
IT13-CA06-02	—	5.03	
IT13-CA06-03	—	4.92	
IT13-CA06-04	—	3.37	
IT13-CA06-05	—	2.68	
IT13-CA06-06	—	2.77	
IT13-CA06-07	—	3.18	
IT13-CA06-08	—	5.23	
IT13-CA06-09	—	5.41	
IT13-CA06-10	—	2.23	
IT13-CA06-11	—	6.11	
IT13-CA06-12	—	4.02	
IT13-CA06-13	—	6.37	strong odor
IT13-CA06-14	—	5.22	
IT13-CA06-15	—	4.98	
IT13-CA06-16	—	2.93	

Appendix D
Vacuum Truck Activity Log

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/16/04 **Operated By:** Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 600 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/19/04 **Operated By:** Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Depth to Water from TOC (ft)	Extracted	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 500 **Gallons**

AI-1
AI-2
AI-3
AI-4
AI-5
AI-6
} Extracted.

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/20/04 Operated By: _____

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Extracted	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 1000 Gallons

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/24/04 **Operated By:** Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 800 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/26/04 **Operated By:** Brian

Well ID	Prior to Extraction: Depth to Product from TOC ft	Prior to Extraction: Depth to Water from TOC ft	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 500 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/27/04 Operated By: Brian

Well ID	Prior to Extraction: Depth to Product from TOC ft	Prior to Extraction: Depth to Water from TOC ft	Extracted	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 900 Gallons

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/30/04 **Operated By:** Brian N

Well ID	Prior to Extraction: Depth to Product from TOC ft	Prior to Extraction: Depth to Water from TOC ft	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 600 **Gallons**

6

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 8/31/04 Operated By: Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Extracted?	Comments
DVE-1			(Yes) No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			(Yes) No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 400 Gallons

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/8/04 **Operated By:** Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Dredged?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 450 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/9/04 Operated By: Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Extracted	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 600 Gallons

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/10/04 **Operated By:** Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 650 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/13/04 **Operated By:** Brian

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 1100 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/15/04 **Operated By:** _____

Well ID	Prior to Extraction Depth to Product from TOC (ft)	Prior to Extraction Depth to Water from TOC (ft)	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 1100 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/17/04 **Operated By:** Brian

Well ID	Product Extraction Depth to Product from TOC (ft)	Product Extraction Depth to Water from TOC (ft)	Extracted ?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 300 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/20/04 **Operated By:** _____

Well ID	Prior to Extraction: Depth to Product from TOC (ft)	Prior to Extraction: Depth to Water from TOC (ft)	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 550 **Gallons**

Also extracted BWs

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/21/04 **Operated By:** _____

Well ID	Phase Extraction Depth to Product from TOC (ft)	Phase Extraction Depth to Water from TOC (ft)	Exceeded?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

Water Extracted: 200 **Gallons**

CAA-6 (Parcel 37) Vacuum Truck Activities Log
Alameda Point, Alameda, California

Date: 9/27/04 **Operated By:** _____

Well ID	Prior to Extraction: Depth to Product from TOC (')	Prior to Extraction: Depth to Water from TOC (')	Extracted?	Comments
DVE-1			Yes No	
DVE-2			Yes No	
DVE-3			Yes No	
DVE-4			Yes No	
OB-1			Yes No	
OB-2			Yes No	
OB-3			Yes No	

BWS
Water Extracted: 200 **Gallons**

Appendix E
Hydrocarbon-Degrading Bacteria Enumeration, Soil and Groundwater

CytoCulture
ENVIRONMENTAL
BIOTECHNOLOGY
CytoCulture International, Inc.
249 Tewksbury Avenue
Pt. Richmond, CA 94801 USA

Shaw Environmental Inc.
Project Name: **CT0 101 – CAA6**
Project Center No.: **843778**
Project Manager: **J. McMillan**
Send Report to: **James D. Lenzen**
Address: 4005 Port Chicago Highway
Concord, CA 94520-1120
Email: james.lenzen@shawgrp.com

Reporting Date: **September 7, 2004**
CytoCulture Lab Login: **04-130**
P.O. Number: **220055**

Phone Number: 925-288-2015

Samples: Six soil samples were received on ice on 08/27/04. The samples were stored at 4°C and assayed the same day. Please see the attached chain of custody form.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assays

Analysis Request: Enumeration of aerobic petroleum hydrocarbon-degrading bacteria (broad range petroleum derived from regular gasoline) by method 9215A (HPC)/ Standard Methods 9215B modified.

Carbon Sources: Pasteurized Chevron regular gasoline was dissolved into agar plates as the sole carbon and energy source for the growth of aerobic hydrocarbon-degrading bacteria.

Protocol for Hydrocarbon-Degrading Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with agar and hydrocarbons, without any other carbon sources or nutrients added. Triplicate plates were inoculated with 1.0 ml of a 0.2% sodium pyrophosphate extract of the sample (log dilution 10^0) or log dilutions of the extract at 10^{-1}, 10^{-2}, 10^{-3} and 10^{-4}. Hydrocarbon plates were counted after 7 days incubation at 30°C. The plate count data are reported as colony forming units (cfu) per gram (g) of soil. Each enumeration value represents a statistical average of the plate count data obtained from two of the four inoculating log dilutions assayed.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assay Results

Client Sample Number	Sample Date	Hydrocarbon Degraders for Diesel (cfu/g)
101-CAA6-SO-007	08/25/04	2×10^3
101-CAA6-SO-008	08/25/04	2×10^5
101-CAA6-SO-009	08/25/04	6×10^4
101-CAA6-SO-010	08/25/04	5×10^3
101-CAA6-SO-011	08/25/04	3×10^5
101-CAA6-SO-012	08/25/04	1×10^4
Sterile Water	08/27/04	0
Air control	08/27/04	0
Positive Control	08/27/04	1×10^9

Reporting Limit for enumeration data is 1.0×10^1 cfu/g.

A positive control sample of hydrocarbon-degrading bacteria was run concurrently with these samples using a mixed flask culture of bacteria isolated from contaminated groundwater sites in Northern California.

CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field bioremediation protocols.

Joselita P. Tablante
Laboratory Technician

Randall von Wedel, Ph.D.
Principal Biochemist

C:\CytoCulture 2004\Cytolab\lab reports\ Shaw Environmental \ Water 04-130

CHAIN OF JSTODY

Ref. Document # 101- CAA6 3

Page 1 of 1

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 843778
Project Name / Location: Alameda CTO 101 - CAA6
Purchase Order #: 220055

Project Manager: John McMillan (Name & phone #)

Shipment Date: 08/27/2004
Waybill Number: UPS
Lab Destination: CytoCulture
Lab Contact Name / ph. #: Randal Von W.

04-130

Send Report To: JD Lenzen
Phone/Fax Number: 925-288-2015
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Garrick Anderson

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Preservative (water): UN / Preservative (soil): ICE / Container Type: 1 X Brass Sleeves	Analyses Requested: Bacterial Enumeration (9215A/B) Deisel Degraders Only
1	101-CAA6-SO-007	101-CA06-SB6 (3.5 ft - 4.0ft)	08/25/04	01:05 PM	Grab	so	1		X
2	101-CAA6-SO-008	101-CA06-SB7 (2.0ft - 2.5ft)	08/25/04	03:28 PM	Grab	so	1		X
3	101-CAA6-SO-009	101-CA06-SB8 (2.0ft - 2.5ft)	08/25/04	03:45 PM	Grab	so	1		X
4	101-CAA6-SO-010	101-CA06-SB9 (3.0 ft - 3.5ft)	08/25/04	04:37 PM	Grab	so	1		X
5	101-CAA6-SO-011	101-CA06-SB10 (1.5ft - 2.0ft)	08/25/04	04:55 PM	Grab	so	1		X
6	101-CAA6-SO-012	101-CA06-SB11 (4.5ft - 5.0ft)	08/25/04	05:24 PM	Grab	so	1		X

COPY

Special Instructions:

Turnaround Time: NORMAL TAT — ☐ 24-hr ☐ 48-hr ☐ 3-day ☐ 5-day

Level Of QC Required: I II III Project Specific:

Relinquished By: JD LENZEN Date: 08/27/2004 Time: 16:00

Received By: Date: 8/27/04 Time: 1600

Relinquished By: Date: Time:

Received By: Date: Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

CytoCulture
ENVIRONMENTAL
BIOTECHNOLOGY
CytoCulture International, Inc.
249 Tewksbury Avenue
Pt. Richmond, CA 94801 USA

Shaw Environmental Inc.
Project Name: **Alameda CT0 101 – CAA6**
Project Center No.: **843778**
Project Manager: **J. McMillan**
Send Report to: **James D. Lenzen**
Address: 4005 Port Chicago Highway
Concord, CA 94520-1120
Email: james.lenzen@shawgrp.com

Reporting Date: **September 7, 2004**
CytoCulture Lab Login: **04-133**
P.O. Number: **220055**

Phone Number: 925-288-2015

Samples: Twelve water samples were received on ice on 08/31/04. The samples were stored at 4°C and assayed the same day. Please see the attached chain of custody form.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assays

Analysis Request: Enumeration of aerobic petroleum hydrocarbon-degrading bacteria (broad range petroleum derived from regular gasoline) by method 9215A (HPC)/ Standard Methods 9215B modified.

Carbon Sources: Pasteurized Chevron regular gasoline was dissolved into agar plates as the sole carbon and energy source for the growth of aerobic hydrocarbon-degrading bacteria.

Protocol for Hydrocarbon-Degrading Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with agar and hydrocarbons, without any other carbon sources or nutrients added. Triplicate plates were inoculated with 1.0 ml of each sample (log dilution 10^0) or log dilutions of each sample at 10^{-1}, 10^{-2}, and 10^{-3}. Hydrocarbon plates were counted after 7 days incubation at 30°C. The plate count data is reported as colony forming units (cfu) per milliliter (ml). Each enumeration value represents a statistical average of the plate count data obtained from two of the four inoculating log dilutions assayed.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assay Results

Client Sample Number	Sample Date	Hydrocarbon Degraders for Diesel (cfu/ml)
101-CAA6-BIO-001	08/26/04	9×10^2
101-CAA6-BIO-002	08/26/04	7×10^2
101-CAA6-BIO-003	08/26/04	3×10^3
101-CAA6-BIO-004	08/26/04	$< 1 \times 10^1$
101-CAA6-BIO-005	08/26/04	1×10^3
101-CAA6-BIO-006	08/26/04	3×10^2
101-CAA6-BIO-007	08/26/04	1×10^3
101-CAA6-BIO-008	08/26/04	3×10^3
101-CAA6-BIO-012	08/26/04	6×10^3
101-CAA6-BIO-020	08/30/04	4×10^3
101-CAA6-BIO-021	08/30/04	6×10^2
101-CAA6-BIO-022	08/30/04	3×10^2
Sterile Water	08/31/04	0
Air control	08/31/04	0
Positive Control	08/31/04	2×10^9

Reporting Limit for enumeration data is 1.0×10^1 cfu/ml.

A positive control sample of hydrocarbon-degrading bacteria was run concurrently with these samples using a mixed flask culture of bacteria isolated from contaminated groundwater sites in Northern California.

CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field bioremediation protocols.

Joselita P. Tablante
Laboratory Technician

Randall von Wedel, Ph.D.
Principal Biochemist

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Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY

Ref. Document # 101- CAA6- 006

Page 1 of 2

Project Number: 843778
Project Name / Location: Alameda CTO 101 - CAA6
Purchase Order #: 220055

Project Manager: John McMillan (Name & phone #)

Shipment Date: 08/30/2004
Waybill Number: Carrier
Lab Destination: CytoCulture
Lab Contact Name / ph. #: Randall Von W.

04-133

Send Report To: JD Lenzen
Phone/Fax Number: 925-288-2015
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): JD and Errg Samplers

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Analyses Requested: Bacterial Enumeration - Diesel Range Degraders (9215A/B)
							Preservative (water)	UN
							Preservative (soil)	ICE
							Container Type	1 X 500 ml HDPE
1	101-CAA6-BIO-001	CA06-004	08/26/04	08:35 AM	PP	gw	1	X
2	101-CAA6-BIO-002	CA06-014	08/26/04	09:45 AM	PP	gw	1	X
3	101-CAA6-BIO-003	CA06-009	08/26/04	10:40 AM	PP	gw	1	X
4	101-CAA6-BIO-004	CA06-016	08/26/04	08:38 AM	PP	gw	1	X
5	101-CAA6-BIO-005	CA06-003	08/26/04	10:00 AM	PP	gw	1	X
6	101-CAA6-BIO-006	CA06-002	08/26/04	11:00 AM	PP	gw	1	X
7	101-CAA6-BIO-007	CA06-005	08/26/04	08:20 AM	PP	gw	1	X
8	101-CAA6-BIO-008	CA06-011	08/26/04	09:25 AM	PP	gw	1	X
9	101-CAA6-BIO-012	CA06-OB3	08/26/04	12:00 PM	PP	gw	1	X

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Special Instructions:

Turnaround Time: ☐ 24-hr ☐ 48-hr NORMAL TAT ☐ 3-day ☐ 5-day

Level Of QC Required: I | II | III | Project Specific:

Relinquished By: JD LENZEN Date: 08/30/2004 Time: 16:00
Received By: Date: 8/30/04 Time: 1530

Relinquished By: Date: Time:
Received By: Date: Time:

Method Codes

C = Composite G = Grab

Matrix Codes

DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

CHAIN OF CUSTODY

Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

Ref. Document # 101- CAA6- 006

Page 2 of 2

Project Number: 843778
Project Name / Location: Alameda CTO 101
Shipment Date: 08/30/2004

04-133

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Preservative (water) / Preservative (soil) / Container Type	Analyses Requested: Bacterial Enumeration - Diesel Range Degraders (9215A/B)								
								Preservative (water)	UN								
								Preservative (soil)	ICE								
								Container Type	1 X 500 ml HDPE								
10	101-CAA6-BIO-020	CA06-OB1	08/30/04	09:55 AM	PP	gw	1		X								
11	101-CAA6-BIO-021	CA06-OB2	08/30/04	07:55 AM	PP	gw	1		X								
12	101-CAA6-BIO-022	CA06-0013	08/30/04	08:50 AM	PP	gw	1		X								

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CytoCulture International, Inc.
249 Tewksbury Avenue
Pt. Richmond, CA 94801 USA

Shaw Environmental Inc.
Project Name: **Alameda CT0 101 – CAA6**
Project Center No.: **843778**
Project Manager: **John McMillan**
Send Report to: **James D. Lenzen**
Address: 4005 Port Chicago Highway
Concord, CA 94520-1120
Email: james.lenzen@shawgrp.com

Reporting Date: October 23, 2004
CytoCulture Lab Login: **04-144**
P.O. Number: **220055**

Phone Number: 925-288-2015

Samples: Twelve water samples were received on ice on 09/30/04. The samples were stored at 4°C and assayed the same day. Please see the attached chain of custody form.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assays

Analysis Request: Enumeration of aerobic petroleum hydrocarbon-degrading bacteria (broad range petroleum derived from regular diesel) by method 9215A (HPC)/ Standard Methods 9215B modified.

Carbon Sources: Pasteurized diesel was dissolved into agar plates as the sole carbon and energy source for the growth of aerobic hydrocarbon-degrading bacteria.

Protocol for Hydrocarbon-Degrading Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with agar and hydrocarbons, without any other carbon sources or nutrients added. Triplicate plates were inoculated with 1.0 ml of each sample (log dilution 10^0) or log dilutions of each sample at 10^{-1}, 10^{-2}, and 10^{-3}. Hydrocarbon plates were counted after at least 7 days incubation at 30°C. The plate count data is reported as colony forming units (cfu) per milliliter (ml). Each enumeration value represents a statistical average of the plate count data obtained from two of the four inoculating log dilutions assayed.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assay Results

Client Sample Number	Sample Date	Hydrocarbon Degraders for Diesel (cfu/ml)
101-CAA6-BIO-023	09/30/04	2×10^3
101-CAA6-BIO-024	09/30/04	3×10^3
101-CAA6-BIO-025	09/30/04	2×10^2
101-CAA6-BIO-026	09/30/04	3×10^2
101-CAA6-BIO-028	09/30/04	1×10^3
101-CAA6-BIO-029	09/30/04	2×10^2
101-CAA6-BIO-030	09/30/04	2×10^3
101-CAA6-BIO-031	09/30/04	1×10^2
101-CAA6-BIO-032	09/30/04	2×10^2
101-CAA6-BIO-033	09/30/04	$<1 \times 10^1$
101-CAA6-BIO-036	09/30/04	4×10^2
101-CAA6-BIO-034	09/30/04	1×10^1
Sterile Water	09/30/04	0
Air control	09/30/04	0
Positive Control	09/30/04	8×10^8

Reporting Limit for enumeration data is 1.0×10^1 cfu/ml.

A positive control sample of hydrocarbon-degrading bacteria was run concurrently with these samples using a mixed flask culture of bacteria isolated from contaminated groundwater sites in Northern California.

CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field bioremediation protocols.

Hidhe Garcia
Laboratory Technician

Randall von Wedel, Ph.D.
Principal Biochemist

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CHAIN OF CUSTODY

Ref. Document # 101- CAA6- 012

Cyto # 04-144

Page 1 of 2

Shaw Environmental and Infrastructure Inc.
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 843778
Project Name / Location: Alameda CTO 101 - CAA6
Purchase Order #: 220055

Project Manager: John McMillan (Name & phone #)

Shipment Date: 09/30/2004
Waybill Number: Carrier
Lab Destination: CytoCulture
Lab Contact Name / ph. #: Randall Von W.

Send Report To: JD Lenzen
Phone/Fax Number: 925-288-2015
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): JD and Errg Samplers

Analyses Requested

Sample ID Number	Sample Description	Collection Information Date	Time	Method	Matrix	# of containers	Preservative (water) / Preservative (soil) / Container Type	Bacterial Enumeration - Diesel Range Degraders (9215A/B)							
							Preservative (water)	UN							
							Preservative (soil)	ICE							
							Container Type	1 X 500 ml HDPE							
101-CAA6-BIO-023	CA06-OB2	09/30/04	09:25 AM	PP	gw	1		X							
101-CAA6-BIO-024	CA06-OB1	09/30/04	09:25 AM	PP	gw	1		X							
101-CAA6-BIO-025	CA06-002	09/30/04	09:00 AM	PP	gw	1		X							
101-CAA6-BIO-026	CA06-016	09/30/04	09:35 AM	PP	gw	1		X							
101-CAA6-BIO-028	CA06-013	09/30/04	10:50 AM	PP	gw	1		X							
101-CAA6-BIO-029	CA06-OB3	09/30/04	11:25 AM	PP	gw	1		X							
101-CAA6-BIO-030	CA06-003	09/30/04	01:00 PM	PP	gw	1		X							
101-CAA6-BIO-031	CA06-011	09/30/04	02:10 PM	PP	gw	1		X							
101-CAA6-BIO-032	CA06-004	09/30/04	11:20 AM	PP	gw	1		X							

Special Instructions:

note Diesel only per Degraders Mustafa 9/30

Turnaround Time: ☐ 24-hr ☐ 48-hr ☐ 3-day ☐ 5-day NORMAL TAT

Level Of QC Required: ☐ I ☐ II ☐ III ☐ Project Specific:

Relinquished By: JD LENZEN Date: 09/30/2004 Time: 16:00

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Randall von Wedel Date: 9/30/04 Time: 1500

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

12 samples (2 pages)

CHAIN OF CUSTODY

Ref. Document # 101- CAA6- 012

Shaw
Shaw Environmental and Infrastructure Inc.
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 843778
Project Name / Location: Alameda CTO 101
Shipment Date: 09/30/2004

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Preservative (water): UN / Preservative (soil): ICE / 1 X 500 ml HDPE — Analyses Requested: Bacterial Enumeration - Diesel Range Degraders (9215A/B)
10	101-CAA6-BIO-033	CA06-014	09/30/04	12:35 PM	PP	gw	1		X
11	101-CAA6-BIO-036	CA06-005	09/30/04	10:25 AM	PP	gw	1		X
12	101-CAA6-BIO-034	CA06-009	09/30/04	09:00 AM	PP	gw	1		X

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BIOTECHNOLOGY
CytoCulture International, Inc.
249 Tewksbury Avenue
Pt. Richmond, CA 94801 USA

Shaw Environmental Inc.
Project Name: **Alameda CT0 101 – CAA6**
Project Center No.: **843778**
Project Manager: **J. McMillan**
Send Report to: **James D. Lenzen**
Address: 4005 Port Chicago Highway
Concord, CA 94520-1120
Email: james.lenzen@shawgrp.com

Reporting Date: **January 19, 2005**
CytoCulture Lab Login: **05-02**
P.O. Number: **220055**

Phone Number: 925-288-2015

Samples: Four water samples were received on ice on 01/12/2005. The samples were stored at 4°C and assayed the same day. Please see the attached chain of custody form.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assays

Analysis Request: Enumeration of aerobic petroleum hydrocarbon-degrading bacteria (broad range petroleum derived from diesel fuel by method 9215A (HPC)/ Standard Methods 9215B modified.

Carbon Sources: Pasteurized Chevron diesel no. 2 was dissolved into agar plates as the sole carbon and energy source for the growth of aerobic hydrocarbon-degrading bacteria.

Protocol for Hydrocarbon-Degrading Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with agar and hydrocarbons, without any other carbon sources or nutrients added. Triplicate plates were inoculated with 1.0 ml of each sample (log dilution 10^0) or log dilutions of each sample at 10^{-1}, 10^{-2}, and 10^{-3}. Hydrocarbon plates were counted after 7 days incubation at 30°C. The plate count data is reported as colony forming units (cfu) per milliliter (ml). Each enumeration value represents a statistical average of the plate count data obtained from two of the four inoculating log dilutions assayed.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assay Results

Client Sample Number	Sample Date	Hydrocarbon Degraders for Diesel (cfu/ml)
101-CAA6-DVE-09	01/12/05	3×10^3
101-CAA6- DVE -10	01/12/05	7×10^2
101-CAA6- DVE -11	01/12/05	2×10^4
101-CAA6- DVE -12	01/12/05	5×10^3
Sterile Water	01/12/05	0
Air control	01/12/05	0
Positive Control	01/12/05	2×10^8

Reporting Limit for enumeration data is 1.0×10^1 cfu/ml.

A positive control sample of hydrocarbon-degrading bacteria was run concurrently with these samples using a mixed flask culture of bacteria isolated from contaminated groundwater sites in Northern California.

CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field bioremediation protocols.

Cheryl Chu, B.S.
Laboratory Technician

Randall von Wedel, Ph.D.
Principal Biochemist

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Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY 05-02

Ref. Document # 101-CAA6-014

Page 1 of 1

Project Number: 843778
Project Name / Location: Alameda CTO 101 - CAA6
Purchase Order #: 220055

Project Manager: John McMillan (Name & phone #)

Shipment Date: [illegible]
Waybill Number: Courier
Lab Destination: Cyto Culture
Lab Contact Name / ph. #: Randal Von W.

Send Report To: JD Lenzen
Phone/Fax Number: 925-288-2015
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): JD, KM, CL

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Preservative (water): UN	Preservative (soil): ICE	Container Type: 1 x 250 ml HDPE	Bacterial Enumeration - Diesel Range Degraders (8215A/B)									
1	101-CAA6-DVE-09	CA06-DVE1	01/12/05	08:45 AM	G	gw	2				X									
2	101-CAA6-DVE-10	CA06-DVE2	01/12/05	08:55 AM	G	gw	2				X									
3	101-CAA6-DVE-11	CA06-DVE3	01/12/05	09:05 AM	G	gw	2				X									
4	101-CAA6-DVE-12	CA06-DVE4	01/12/05	09:15 AM	G	gw	2				X									

Special Instructions:

Turnaround Time: ☐ 24-hr ☐ 48-hr ☐ 3-day ☐ 5-day NORMAL

Level Of QC Required: I II ☐ III ☐ Project Specific: WLEDD

Relinquished By: JD LENZEN Date: [illegible] Time: 15:40
Received By: [signature] Date: 1/12/05 Time: 2:35 PM

Relinquished By: Date:
Received By: Date: Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

Cyto Culture
ENVIRONMENTAL
BIOTECHNOLOGY
CytoCulture International, Inc.
249 Tewksbury Avenue
Pt. Richmond, CA 94801 USA

Shaw Environmental Inc.
Project Name: **Alameda CT0 101 – CAA6**
Project Center No.: **843778**
Project Manager: **J. McMillan**
Phone Number: 925-288-2015
Address: 4005 Port Chicago Highway
Concord, CA 94520-1120
Email: james.lenzen@shawgrp.com

Reporting Date: **January 25, 2005**
CytoCulture Lab Login: **05-03**
P.O. Number: **220055**
Send Report to: **James D. Lenzen**

Samples: Twelve out of fourteen water samples were received on ice on 01/18/2005. The samples were stored at 4°C and assayed the same day. Please see the attached chain of custody form.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assays

Analysis Request: Enumeration of aerobic petroleum hydrocarbon-degrading bacteria (broad range petroleum derived from diesel fuel by method 9215A (HPC)/ Standard Methods 9215B modified.

Carbon Sources: Pasteurized Chevron diesel no. 2 was dissolved into agar plates as the sole carbon and energy source for the growth of aerobic hydrocarbon-degrading bacteria.

Protocol for Hydrocarbon-Degrading Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with agar and hydrocarbons, without any other carbon sources or nutrients added. Triplicate plates were inoculated with 1.0 ml of each sample (log dilution 10^0) or log dilutions of each sample at 10^{-1}, 10^{-2}, and 10^{-3}. Hydrocarbon plates were counted after 7 days incubation at 30°C. The plate count data is reported as colony forming units (cfu) per milliliter (ml). Each enumeration value represents a statistical average of the plate count data obtained from two of the four inoculating log dilutions assayed.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assay Results

Client Sample Number	Sample Date	Hydrocarbon Degraders for Diesel (cfu/ml)
101-CAA6-BIO-39	01/13/05	3×10^2
101-CAA6-BIO-41	01/13/05	2×10^2
101-CAA6-BIO-42	01/13/05	2×10^2
101-CAA6-BIO-43	01/13/05	3×10^4
101-CAA6-BIO-44	01/13/05	2×10^4
101-CAA6-BIO-45	01/14/05	2×10^2
101-CAA6-BIO-46	01/14/05	2×10^4
101-CAA6-BIO-47	01/14/05	7×10^2
101-CAA6-BIO-48	01/14/05	2×10^3
101-CAA6-BIO-49	01/14/05	1×10^4
101-CAA6-BIO-50	01/14/05	1×10^2
101-CAA6-BIO-51	01/14/05	7×10^3
Sterile Water	01/18/05	0
Air control	01/18/05	0
Positive Control	01/18/05	5×10^8

Reporting Limit for enumeration data is 1.0×10^1 cfu/ml.

A positive control sample of hydrocarbon-degrading bacteria was run concurrently with these samples using a mixed flask culture of bacteria isolated from contaminated groundwater sites in Northern California.

CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field bioremediation protocols.

Sharon Huang
Laboratory Technician

Randall von Wedel, Ph.D.
Principal Biochemist

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05-03

Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY

Ref. Document # 101-CAA6-017

Page 1 of 1

Project Number: 843778
Project Name / Location: Alameda CTO 101 - CAA6
Purchase Order #: 220055

Project Manager: John McMillan (Name & phone #)

Shipment Date: 01/14/2005
Waybill Number: UPS
Lab Destination: Cyto Culture
Lab Contact Name / ph. #: Randie Von W.

Send Report To: JD Lenzen
Phone/Fax Number: 925-288-2015
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): JD, SS & PM

Analyses Requested: Bacterial Enumeration - Diesel Range Degraders (9215A/B)

	Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Preservative (water)	Preservative (soil)	Container Type	Bacterial Enumeration - Diesel Range Degraders (9215A/B)
											UN	ICE	1 x 250 ml HDPE
1	101-CAA6-BIO-39	CA06-0005	01/13/05	11:30 AM	PP	gw	1				X
2	101-CAA6-BIO-41	CA06-0016	01/13/05	12:48 PM	PP	gw	1				X
3	101-CAA6-BIO-42	CA06-0004	01/13/05	12:30 PM	PP	gw	1				X
4	101-CAA6-BIO-43	CA06-0003	01/13/05	01:45 AM	PP	gw	1				X
5	101-CAA6-BIO-44	CA06-0011	01/13/05	01:54 PM	PP	gw	1				X
6	101-CAA6-BIO-45	CA06-0009	01/14/05	08:45 AM	PP	gw	1				X
7	101-CAA6-BIO-46	CA06-0013	01/14/05	08:37 AM	PP	gw	1				X
8	101-CAA6-BIO-47	CA06-OB2	01/14/05	09:35 AM	PP	gw	1				X
9	101-CAA6-BIO-48	CA06-OB1	01/14/05	09:45 AM	PP	gw	1				X
10	101-CAA6-BIO-49	CA06-OB3	01/14/05	10:40 AM	PP	gw	1				X
11	101-CAA6-BIO-50	CA06-0014	01/14/05	10:50 AM	PP	gw	1				X
12	101-CAA6-BIO-51	CA06-0002	01/14/05	11:40 AM	PP	gw	1				X
	101-CAA6-BIO-52	CA06-0010	01/14/05	11:45 AM	PP	gw	1				X
	101-CAA6-BIO-53	CA06-0012	01/14/05	12:15 PM	PP	gw	1				X

Special Instructions: Anions = Nitrate, Nitrite, Sulfate & Orthophosphate

Turnaround Time: ☐ 24-hr ☐ 48-hr NORMAL ☐ 3-day ☐ 5-day

Level Of QC Required: 14-Jan II III Project Specific: W/ EDD

Relinquished By: JD LENZEN Date: 01/14/05 Time: 1800

Received By: Richie H. Yu Date: 1/18/05 Time: 10:00AM

Relinquished By: Date: Time:

Received By: Date: Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

CytoCulture
ENVIRONMENTAL
BIOTECHNOLOGY
CytoCulture International, Inc.
249 Tewksbury Avenue
Pt. Richmond, CA 94801 USA

Shaw Environmental Inc.
Project Manager: **John McMillan**
Send Report to: **James D. Lenzen**
Address: 4005 Port Chicago Highway
Concord, CA 94520-1120
Phone Number: 925-288-2015
Email: james.lenzen@shawgrp.com

Reporting Date: **July 29, 2005**
CytoCulture Lab Login: **05-87**
P.O. Number: **220055**
Project Name: **Alameda CT0 101-CAA6**
Project Center No.: **843778**

Samples: Five water samples were received on ice on 07/22/2005. The samples were stored at 4°C and assayed the same day. Please see the attached chain of custody form.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assays

Analysis Request: Enumeration of aerobic petroleum hydrocarbon-degrading bacteria (broad range petroleum derived from diesel no. 2 or Jetfuel 5) by method 9215A (HPC)/ Standard Methods 9215B modified.

Carbon Sources: Pasteurized Chevron diesel No. 2 or Jetfuel 5 were dissolved into agar plates as the sole carbon and energy source for the growth of aerobic hydrocarbon-degrading bacteria.

Protocol for Hydrocarbon-Degrading Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with agar and hydrocarbons, without any other carbon sources or nutrients added. Triplicate plates were inoculated with 1.0 ml of each sample (log dilution 10^0) and log dilutions of each sample at 10^{-1}, 10^{-2}, and 10^{-3}. Hydrocarbon plates were counted after 7 days incubation at 30°C. The plate count data is reported as colony forming units (cfu) per milliliter (ml). Each enumeration value represents a statistical average of the plate count data obtained from two of the four inoculating log dilutions assayed.

AEROBIC
Hydrocarbon-Degrading Bacteria Enumeration Assay Results

Client Sample Number	Sample Date	Hydrocarbon Degraders for Diesel (cfu/ml)	Hydrocarbon Degraders for Jetfuel (cfu/ml)
37IT-CAA6-BIO-65	07/21/05	1×10^4	8×10^3
37IT-CAA6-BIO-66	07/21/05	6×10^2	1×10^3
37IT-CAA6-BIO-67	07/21/05	3×10^2	4×10^3
37IT-CAA6-BIO-68	07/21/05	3×10^3	5×10^3
37IT-CAA6-BIO-69	07/21/05	2×10^4	2×10^4
Sterile Water	07/22/05	0	0
Air control	07/22/05	0	0
Positive Control	07/22/05	4×10^9	4×10^9

Reporting Limit for enumeration data is 1.0×10^1 cfu/ml.

A positive control sample of hydrocarbon-degrading bacteria was run concurrently with these samples using a mixed flask culture of bacteria isolated from contaminated groundwater sites in Northern California.

CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field bioremediation protocols.

Sharon Huang
Laboratory Technician

Randall von Wedel, Ph.D.
Principal Biochemist

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Shaw

Shaw Environmental and Infrastructure Inc.

4005 Port Chicago Hwy
Concord, CA 94520

CHAIN OF CUSTODY

Ref. Document # 101-CAA6-u21

Page 1 of 1

Project Number: 843778
Project Name / Location: Alameda CTO 101 - CAA6
Purchase Order #: 220055

Project Manager: John McMillan

Shipment Date: 07/21/2005
Waybill Number: Courier
Lab Destination: Quantitative
Lab Contact Name / ph. #: Randy Von Weede

Send Report To: JD Lenzer
Phone/Fax Number: 925-288-2015
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

05-87

Sampler's Name(s): Scott Standridge

Sample ID Number	Sample Description	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Preservative (water): UN Preservative (soil): ICE Container Type: X250 mL HDPE	Bacterial Count (9215A/B) - JP5 & Diesel								
37IT-CAA6-BIO-65	PZ-16	07/21/05	11:20 AM	Grab	gw	1		X									
37IT-CAA6-BIO-66	PZ-5	07/21/05	11:45 AM	Grab	gw	1		X									
37IT-CAA6-BIO-67	PZ-11	07/21/05	11:20 AM	Grab	gw	1		X									
37IT-CAA6-BIO-68	PZ-03	07/21/05	12:30 PM	Grab	gw	1		X									
37IT-CAA6-BIO-69	PZ-13	07/21/05	12:45 PM	Grab	gw	1		X									

Special Instructions:

Turnaround Time: NORMAL ☐ 24-hr ☐ 48-hr ☐ 3-day ☐ 5-day

Level of QC Required: I II ☐ III Project Specific W/ EDD

Relinquished By: Scott Standridge Date: 07/21/2005 Time: 16:00

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/21/05 Time:

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples

Cyto Culture
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BIOTECHNOLOGY
CytoCulture International, Inc.
249 Tewksbury Avenue
Pt. Richmond, CA 94801 USA

Shaw Environmental Inc.
Project Manager: **John McMillan**
Send Report to: **Suman Sharma**
Address: 4005 Port Chicago Highway
Concord, CA 94520-1120
Phone Number: 925-288-2332
Email: suman.sharma@shawgrp.com

Reporting Date: **March 1, 2006**
CytoCulture Lab Login: **06-21**
P.O. Number: **220055**
Project Name: **Alameda CT0 101-CAA6**
Project No.: **843778**

Samples: Seven water samples were received on ice on 02/21/2006. The samples were stored at 4°C and assayed the same day. Please see the attached chain of custody form.

AEROBIC
Total Heterotrophic and Hydrocarbon-Degrading Bacteria Enumeration Assays

Analysis Request: Enumeration of aerobic petroleum hydrocarbon-degrading bacteria (broad range petroleum derived from Jetfuel 5) by method 9215A (HPC)/ Standard Methods 9215B modified.

Carbon Sources: Pasteurized Jetfuel 5 was dissolved into agar plates as the sole carbon and energy source for the growth of aerobic hydrocarbon-degrading bacteria.

Protocol for Hydrocarbon-Degrading Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts medium at pH 6.8 with agar and hydrocarbons, without any other carbon sources or nutrients added. Triplicate plates were inoculated with 1.0 ml of each sample (log dilution 10^0) and log dilutions of each sample at 10^{-1}, 10^{-2}, and 10^{-3}. Hydrocarbon plates were counted after 8 days incubation at 30°C. The plate count data is reported as colony forming units (cfu) per milliliter (ml). Each enumeration value represents a statistical average of the plate count data obtained from two of the four inoculating log dilutions assayed.

Carbon Source for Total Heterotrophic Bacteria: Growth medium was prepared with standard methods total plate count agar (Difco) containing a wide range of carbon sources derived from yeast extract, tryptone, pancreatic digest of casein and glucose.

A positive control sample of hydrocarbon-degrading bacteria was run concurrently with these samples using a mixed flask culture of bacteria isolated from contaminated groundwater sites in Northern California.

CytoCulture is available on a consulting basis to assist in the interpretation of these data and their application to field bioremediation protocols.

Hidhe Garcia
Laboratory Technician

Randall von Wedel, Ph.D.
Principal Biochemist

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Protocol for Total Heterotrophic Bacteria: Sterile agar plates (100 x 15 mm) were prepared with minimal salts and 2.35% heterotrophic plate count agar at pH 6.8 without any other carbon source or nutrients added. Sets of triplicate plates were inoculated with 1.0 ml of sample at log dilutions 10^{-1}, 10^{-2}, and 10^{-3}. The heterotrophic plates were counted after 3 days incubation at 30°C. The plate count data is reported as colony forming units (cfu) per milliliter (ml) of sample. Each enumeration value represents a statistical average of two of the four inoculating log dilutions assayed.

AEROBIC
Total Heterothrophs and Hydrocarbon-Degrading Bacteria Enumeration Assay Results

Client Sample Number	Sample Date	Total Heterotrophs (cfu/ml)	Hydrocarbon Degraders for Jetfuel (cfu/ml)
101-CAA6-BIO-121	02/20/06	3×10^3	2×10^3
101-CAA6-BIO-122	02/20/06	4×10^3	2×10^3
101-CAA6-BIO-123	02/20/06	1×10^4	1×10^3
101-CAA6-BIO-124	02/20/06	1×10^4	3×10^3
101-CAA6-BIO-125	02/20/06	8×10^4	1×10^4
101-CAA6-BIO-126	02/20/06	4×10^3	2×10^3
101-CAA6-BIO-127	02/20/06	3×10^4	3×10^4
Sterile Water	02/21/06	0	0
Air control	02/21/06	0	0
Positive Control	02/21/06	1×10^{11}	4×10^{10}

Reporting Limit for enumeration data is 1.0×10^1 cfu/ml.

06-21

Shaw

Shaw Environmental and Infrastructure Inc.

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Concord, CA 94520

CHAIN OF CUSTODY

Ref. Document # 101-CAA6-030

Page 1 of 1

Project Number: 843778
Project Name / Location: Alameda CTO 101 - CAA6
Purchase Order #: 220055

Project Manager: John McMillan (Name & position)

Shipment Date: 2/20/2006
Waybill Number: Courier
Lab Destination: CytoCulture
Lab Contact Name / ph. #: Randle Von Weddle

Send Report To: JD Lenzen
Phone/Fax Number: 925-288-2015
Address: 4005 Port Chicago Hwy
City: Concord, CA, 94520

Sampler's Name(s): Eddie Mack/ Scott Standridge

Analyses Requested

	Sample ID Number	Sample Description	Collection Information Date	Time	Method	Matrix	# of containers	Preservative (water) / Preservative (soil) / Container Type	Bacterial Count (9215A/B) UN / ICE / X 250 ml HDPE	[redacted]
1	101-CAA6-BIO-121	PZ-6	02/20/06	10:30 AM	Grab	gw	1		X	
2	101-CAA6-BIO-122	PZ-4	02/20/06	10:50 AM	Grab	gw	1		X	
3	101-CAA6-BIO-123	OB-1	02/20/06	11:10 AM	Grab	gw	1		X	
4	101-CAA6-BIO-124	PZ-14	02/20/06	11:30 AM	Grab	gw	1		X	
5	101-CAA6-BIO-125	OB-2	02/20/06	11:50 AM	Grab	gw	1		X	
6	101-CAA6-BIO-126	PZ-12	02/20/06	12:10 PM	Grab	gw	1		X	
7	101-CAA6-BIO-127	PZ-11	02/20/06	12:30 PM	Grab	gw	1		X	

Special Instructions:

Turnaround Time: NORMAL ☐ 24-hr ☐ 48-hr ☐ 3-day ☐ 5-day

Level Of QC Required: I II III

Project Specific: W/ EDD

Relinquished By: Eddie Mack — Date: 2/20/2006 Time: 15:00

Received By: [signature] — Date: 2/21/06 Time: 12:40 PM

Relinquished By: — Date: Time:

Received By: — Date: Time:

Method Codes
C = Composite
G = Grab

Matrix Codes
DW = Drinking Water
GW = Ground Water
WW = Waste Water
SO = Soil
SL = Sludge
CP = Chip Samples

Appendix F
Laboratory Analytical Data

N00236.002722
ALAMEDA POINT
SSIC NO. 5090.3

APPENDIX F – LABORATORY ANALYTICAL DATA

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
NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

Appendix G
Laboratory Data Quality Assessment

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Table 2 Data Qualification Flags and Reason Codes

Table 3 Qualified Data Summary, Site CAA-6

Acronyms and Abbreviations

CAA-6	Corrective Action Area 6
EPA	U.S. Environmental Protection Agency
FAR	Field Activity Summary Report
ICP	inductively coupled plasma
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PARCC	precision, accuracy, representativeness, comparability, and completeness
PQL	practical quantitation limit
QC	quality control
RSD	relative standard deviation
SAP	Sampling and Analysis
SDG	sample delivery group
SMP	Site Management Plan
VOC	volatile organic compound

1.0 Laboratory Data Quality Assessment

The data quality assessment for the *Field Activity Summary Report (FAR), Corrective Action Area 6* (CAA-6), *Parcel 37, Alameda Point, Alameda, California* (Shaw, 2006a) and the *Site Management Plan* (SMP), *Corrective Action Area 6, Parcel 37, Alameda Point, Alameda, California* (Shaw, 2006b) describes the findings of the data review and validation and is provided to document the quality of the data used in the FAR and SMP.

Sampling and analysis activities for site CAA-6, Parcel 37 are presented in the following documents:

- *Final Sampling and Analysis Plan* (SAP) *Addendum, Post Full-Scale DVE Operations; Soil and Groundwater Sampling, Parcel 37, Alameda Point, Alameda, California* (Shaw, 2003).
- *Final Sampling and Analysis Plan Addendum, Supplemental Corrective Action, Corrective Action Area 6, Parcel 37, Alameda Point, Alameda, California* (Shaw, 2004).

The overall quality control and quality assurance protocols are also presented in the above SAPs.

All soil and groundwater samples collected from October 2003 to March 31, 2006 were shipped to Applied Physics & Chemistry Laboratory, located in Chino, California for analyses. All groundwater and soil samples collected from April 1, 2006 to June 21, 2006 were sent to Curtis & Tompkins, Ltd located in Berkeley, California. Soil gas samples were analyzed by Columbia Analytical Services, located in Simi Valley, California. All laboratories are State of California-certified and have successfully completed the Naval Facilities Engineering Service Center's Laboratory Evaluation Program.

SAP requires that all groundwater monitoring samples collected for the post shutdown operations and soil confirmation samples will be validated by an independent third party. SAP further requires that samples collected for process monitoring, waste characterization or soil gas samples will be reviewed by Shaw project chemists. In February 2004 and September 2005, post-shutdown groundwater samples were collected. In October 2003 and August 2004, soil confirmation samples were collected. In accordance with the SAP data review requirements, analytical results obtained from these sampling events were reviewed by the Data Validation Group. The following sections focus on the result of the third party data review. Subsection 1.12 provides a summary of Shaw internal data review.

The Data Validation Group, Inc. located in Rancho Santa Margarita, California manually performed Level III data review for the post shutdown groundwater monitoring samples and soil

The Data Validation Group, Inc. located in Rancho Santa Margarita, California manually performed Level III data review for the post shutdown groundwater monitoring samples and soil confirmation samples. Table 1 summarizes sample delivery group (SDG), sample numbers, sampling dates, extraction and analytical methods, and data review level for the CAA-6 samples subject to third party review. The review was performed in accordance with the guidelines and control criteria specified in the following documents:

- U.S. Environmental Protection Agency (EPA) *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, 1999).
- EPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 2002).
- EPA *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods* (EPA, 1996).
- Project specific SAPs.

The following quality control (QC) elements were included in the Level III data review:

- Laboratory Method Blanks
- Continuing Calibration Blanks (metals only)
- Sample Holding Times
- Surrogate Recoveries
- Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries (LCS/LCSD)
- Matrix Spike/Matrix Spike Duplicate Recoveries (MS/MSD)
- Relative Percent Differences (RPD)
- Initial Calibrations
- Continuing Calibrations
- ICP Serial Dilution (metals only)
- Field Blanks
- Field Duplicate

The following sections present a discussion of the data review findings. Data were reviewed in terms of precision, accuracy, representativeness, comparability, and completeness (PARCC). The PARCC parameters were evaluated for the analytical data as follows:

- Accuracy is demonstrated by recovery of target analytes from fortified blank and sample matrices, LCS/LCSD and MS/MSD, respectively. The recovery of target analytes from fortified samples is compared to acceptance criteria. When these criteria are not met, the data is flagged as appropriate.
- Precision is expressed as RPD between the results of replicate sample analyses: sample duplicates, LCSDs and MSDs. When analyte RPDs exceed the acceptance criteria, the data is flagged as appropriate.
- Representativeness of the samples submitted for analysis is ensured by adherence to standard sampling techniques and protocols.
- Comparability of sample results is ensured through the use of approved sampling and analysis methods.
- Completeness is expressed as a ratio of number of usable data to all analytical data.

It should be noted that analytical results for soil samples collected on October 3, 2003 (SDG 03-5545) were discussed and presented in the previous FAR. The affected analytical results were validated by the Data Validation Group in 2006. The following subsections provide a discussion of the third party data review findings for SDG 03-5545 and other SDGs listed in Table 1. Table 2 presents definition of data qualification flags and reason codes applied to the sample results. Table 3 summarizes qualified data.

1.1 Laboratory Method Blank (Reason Code B1)

All field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch. Based on the review, acetone and 2-butanone were found at a trace level in one laboratory method blank; and gasoline was detected at a trace level in three laboratory method blanks. Results for 2-butanone and gasoline in samples were qualified as not detected (U) at their respective practical quantitation limit (PQL) when their concentrations were less than or equal to five times the corresponding levels in the laboratory method blanks. Acetone is a common laboratory contaminant. Result for acetone were qualified as not detected (U) at the PQL when sample concentrations were less than or equal to ten times the corresponding level in the blank. The data usability was not affected due to the laboratory blank contamination.

1.2 Continuing Calibration Blank (Reason Code B2)

After an initial calibration and before a continuing calibration, a continuing calibration blank is analyzed to ensure that the instrument is free of target analytes. Lead was observed at a trace

level in a continuing calibration blank, which resulted in lead results in 12 samples qualified as not detected (U) at the PQL.

1.3 Sample Holding Time (Reason Code H)

Sample holding times were evaluated by comparing the sample collection dates to the sample extraction and analysis dates. Extraction and analysis holding times were reviewed for all samples to determine the validity of analytical results. Based on the review, all samples met their respective extraction and analysis holding time requirements.

1.4 Surrogate Recovery (Reason Code S)

Surrogate standards are organic compounds added to field and laboratory QC samples for organic analysis to evaluate matrix effect and method performance on an individual sample basis. Surrogate standard n-octosane was recovered below the 70 percent lower control limit in five diesel samples. Recovery of surrogate standard 4-bromofluorobenzene in one volatile organic compound (VOC) sample also fell below the 80 percent lower control limit. Accordingly, results for diesel, motor oil, JP-5 and VOCs in the affected samples were qualified as estimated (J/UJ). Because the recoveries did not significantly deviate from the acceptance criteria, there is no impact on the data usability. LCS recoveries were within control, indicating acceptable laboratory performance for the analyses.

1.5 Laboratory Control Sample/Laboratory Control Sample Duplicate (Reason Code L)

The LCS is an aliquot of analyte-free sample spiked with target analytes and is prepared with each batch. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. The review indicated that LCS/LCSD analyses were performed for every laboratory QC batch. All of the LCS and LCSD recoveries, and RPDs between LCS and LCSD recoveries met the established control criteria.

1.6 Matrix Spike/Matrix Spike Duplicate (Reason Code M)

The MS and MSD samples are a portion of a field sample spiked with target analytes, and are prepared with each analytical batch. The MS/MSD results are used to evaluate any bias introduced to the method due to matrix interference, and to measure accuracy and precision for each analytical batch. For the February 2004 and September 2005 post shutdown groundwater sampling events; and October 2003 and August 2004 soil confirmation sampling events, the following samples were spiked for analyses:

SDG	MS/MSD Sample Numbers	Analyses
03-5545	101-PAR37-SOIL-001	Gasoline
03-5545	101-PAR37-SOIL-002	Gasoline
04-1815	101-PAR37-DVE-020	Metals
04-1815	101-PAR37-DVE-021	Gasoline
04-1815	101-PAR37-DVE-028	VOC
05-4078	37IT-CAA6-BIO-72	Gasoline
05-4092	37IT-CAA6-BIO-84	Gasoline, Diesel, and VOC

For the above analyses, MS and MSD recoveries and RPDs between MS and MSD recoveries met the established control criteria.

1.7 Initial Calibrations (Reason Code G1)

Instrument calibration is performed for each analysis according to the EPA method requirements. The linear analytical range is established for each method by analysis of standards prepared at increasing concentrations that cover the expected sample concentrations. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation (RSD) or correlation coefficient. Based on the review, RSD for bromomethane was reported above the control limit. Bromomethane was not detected in any associated sample, and the PQL in five samples was qualified as estimated (UJ). Except for the initial calibration outlier for EPA Method 8260B, initial calibration requirements were met for all other methods.

1.8 Continuing Calibrations (Reason Code C1)

Following initial calibrations and routinely during sample analysis, the stability of analytical systems is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the linear range. Based on the review, percent recoveries for acetone and methylene chloride in continuing calibrations fell below the lower control limit. PQLs for acetone and methylene chloride in the affected samples were qualified as estimated (UJ). There is no impact on the data usability.

1.9 ICP Serial Dilution (Reason Code A)

When an analyte concentration is greater than 50 times the Instrument Detection Limit, a serial dilution is performed at a five fold dilution. Results of the inductively coupled plasma (ICP) serial dilution are used to determine if interference is present due to sample matrix. The review indicated that a percent difference for lead between the original analysis and diluted analysis

exceeded the 10 percent control limit. Lead results in the five associated samples were qualified as estimated (J). The data usability is not affected because of the ICP serial dilution outlier.

1.10 Trip Blank (Reason Code K1)

For the February 2004 and September 2005 groundwater sampling events, four trip blanks 101-PAR37-TB-036, 37IT-CAA6-TB-77, 37IT-CAA6-TB-91, and 37IT-CAA6-TB-93 were shipped with aqueous VOC samples. Methylene chloride was detected at a trace concentration in one trip blank 37IT-CAA6-TB-93. Because the analyte was not detected in any associated groundwater samples, the blank detection had no impact on the data quality of associated sample results. No target analytes were observed in the remaining three blanks. The trip blank results indicated acceptable sample shipping and storage procedures. In accordance with SAP requirements, no trip blanks were necessary for soil VOC samples.

1.11 Field Duplicate

No field duplicate samples were collected for the February 2004 and September 2005 post shutdown groundwater sampling events, and October 2003 and August 2004 soil confirmation sampling events.

1.12 Summary of Internal Data Review

In addition to the third party data review discussed above, Shaw project chemists performed Level III data review of analytical results for process monitoring, interim sampling, waste characterization, and soil gas samples. These samples were collected from site CAA-6 between October 2003 and June 21, 2006. The review was performed in accordance with EPA Functional Guidelines, EPA test methods, and project specific SAP requirements. The Level III data review findings were documented in Level III data review worksheets.

In accordance with SAP requirements, silica gel cleanup is necessary for diesel soil and groundwater samples. Silica gel cleanup on diesel extracts is used for separation of target analytes from interfering compounds. In April, the project transitioned to Curtis and Tompkins for soil and groundwater analyses. Silica gel cleanup procedures were not performed for the five groundwater diesel samples collected in April 2006 and six groundwater diesel samples collected in May 2006. These samples were collected from site CAA 6 for interim monitoring purposes. Because diesel results in the affected samples may contain analytes other than diesel range hydrocarbons, the results were qualified as estimated (J) with a high bias. Diesel results were usable for project screening purposes. Corrective actions were taken in June when this oversight was identified, and the silica gel cleanup procedure was used on the June 2006 and all subsequent diesel samples.

With the exception of the silica gel cleanup issue discussed above, no other significant data quality issues were noted. Based on the Shaw internal data review, all data were usable for treatment process monitoring, project screening and waste disposal purposes.

Based on the above third party review and Shaw's internal data review, there were no significant, systematic problems identified with the performance of the EPA Method 8260B, 8015G, 8015E, and 6010B. Although some results were flagged as not detected or estimated due to laboratory blank contamination, surrogate, calibration and ICP serial dilution deficiencies, the data usability was not affected. All data is usable and available for project decisions. Overall, the data are of good technical quality and usable to meet project objectives.

2.0 References

Shaw Environmental, Inc., 2003, *Final Sampling and Analysis Plan Addendum, Post Full-Scale DVE Operations; Soil and Groundwater Sampling, Parcel 37, Alameda Point, Alameda, California,* dated September 18.

Shaw Environmental, Inc., 2004, *Final Sampling and Analysis Plan Addendum, Supplemental Corrective Action, Corrective Action Area 6, Parcel 37, Alameda Point, Alameda, California,* dated August 6.

Shaw Environmental, Inc., 2006a, *Field Activity Summary Report, Corrective Action Area 6, Parcel 37, Alameda Point, Alameda, California,* dated September 14.

Shaw Environmental, Inc., 2006b, *Site Management Plan, Corrective Action Area 6, Parcel 37, Alameda Point, Alameda, California.*

U.S. Environmental Protection Agency, 1996, *Test Methods for Evaluating Solid Waste, SW-846 Physical/Chemical Methods..*

U.S. Environmental Protection Agency, 1999, *Contract Laboratory Program National Functional Guidelines for Organic Data Review.*

U.S. Environmental Protection Agency, 2002, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.*

Tables

Table 1: Summary of Samples Collected, Sample Date,
Preparation Method, Analysis Method, and Data Review Level
Site CAA 6
Alameda NAS - CTO 101, Alameda, California

SDG	Field Sample ID	Sample Date	Lab	Sample Purpose	Extraction Method	Analytical Method	QC Level
35545	101-PAR37-SOIL-001	3-Oct-03	APCL	REG	SW3050	SW6010B	III
35545	101-PAR37-SOIL-001	3-Oct-03	APCL	REG	SW3550	M8015E	III
35545	101-PAR37-SOIL-001	3-Oct-03	APCL	REG	SW5030	M8015V	III
35545	101-PAR37-SOIL-001	3-Oct-03	APCL	REG	SW5030	SW8260B	III
35545	101-PAR37-SOIL-002	3-Oct-03	APCL	REG	SW3050	SW6010B	III
35545	101-PAR37-SOIL-002	3-Oct-03	APCL	REG	SW3550	M8015E	III
35545	101-PAR37-SOIL-002	3-Oct-03	APCL	REG	SW5030	SW8260B	III
35545	101-PAR37-SOIL-002	3-Oct-03	APCL	REG	SW5035	M8015V	III
35545	101-PAR37-SOIL-003	3-Oct-03	APCL	REG	SW3050	SW6010B	III
35545	101-PAR37-SOIL-003	3-Oct-03	APCL	REG	SW3550	M8015E	III
35545	101-PAR37-SOIL-003	3-Oct-03	APCL	REG	SW5030	M8015V	III
35545	101-PAR37-SOIL-003	3-Oct-03	APCL	REG	SW5035	SW8260B	III
35545	101-PAR37-SOIL-004	3-Oct-03	APCL	REG	SW3050	SW6010B	III
35545	101-PAR37-SOIL-004	3-Oct-03	APCL	REG	SW3550	M8015E	III
35545	101-PAR37-SOIL-004	3-Oct-03	APCL	REG	SW5035	M8015V	III
35545	101-PAR37-SOIL-004	3-Oct-03	APCL	REG	SW5035	SW8260B	III
35545	101-PAR37-SOIL-005	3-Oct-03	APCL	REG	SW3050	SW6010B	III
35545	101-PAR37-SOIL-005	3-Oct-03	APCL	REG	SW3550	M8015E	III
35545	101-PAR37-SOIL-005	3-Oct-03	APCL	REG	SW5030	M8015V	III
35545	101-PAR37-SOIL-005	3-Oct-03	APCL	REG	SW5035	SW8260B	III
41815	101-PAR37-DVE-020	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-020	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-020	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-020	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-021	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-021	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-021	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-021	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-022	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-022	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-022	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-022	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-023	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-023	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-023	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-023	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-024	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-024	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-024	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-024	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-025	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-025	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-025	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-025	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-026	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-026	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-026	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-026	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-027	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-027	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-027	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-027	25-Feb-04	APCL	REG	SW5030	SW8260B	III

Table 1: Summary of Samples Collected, Sample Date,
Preparation Method, Analysis Method, and Data Review Level
Site CAA 6
Alameda NAS - CTO 101, Alameda, California

SDG	Field Sample ID	Sample Date	Lab	Sample Purpose	Extraction Method	Analytical Method	QC Level
41815	101-PAR37-DVE-028	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-028	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-028	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-028	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-029	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-029	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-029	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-029	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-030	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-030	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-030	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-030	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-031	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-031	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-031	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-031	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-032	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-032	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-032	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-032	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-033	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-033	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-033	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-033	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-034	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-034	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-034	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-034	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-DVE-035	25-Feb-04	APCL	REG	SW3010	SW6010B	III
41815	101-PAR37-DVE-035	25-Feb-04	APCL	REG	SW3510	M8015E	III
41815	101-PAR37-DVE-035	25-Feb-04	APCL	REG	SW5030	M8015V	III
41815	101-PAR37-DVE-035	25-Feb-04	APCL	REG	SW5030	SW8260B	III
41815	101-PAR37-TB-036	25-Feb-04	APCL	TB	SW5030	SW8260B	III
44231	101-CAA6-SO-001	25-Aug-04	APCL	REG	SW3550	M8015E	III
44231	101-CAA6-SO-002	25-Aug-04	APCL	REG	SW3550	M8015E	III
44231	101-CAA6-SO-003	25-Aug-04	APCL	REG	SW3550	M8015E	III
44231	101-CAA6-SO-004	25-Aug-04	APCL	REG	SW3550	M8015E	III
44231	101-CAA6-SO-005	25-Aug-04	APCL	REG	SW3550	M8015E	III
44231	101-CAA6-SO-006	25-Aug-04	APCL	REG	SW3550	M8015E	III
54078	37IT-CAA6-BIO-71	21-Sep-05	APCL	REG	SW3510	M8015E	III
54078	37IT-CAA6-BIO-71	21-Sep-05	APCL	REG	SW5030	M8015V	III
54078	37IT-CAA6-BIO-71	21-Sep-05	APCL	REG	SW5030	SW8260B	III
54078	37IT-CAA6-BIO-72	21-Sep-05	APCL	REG	SW3510	M8015E	III
54078	37IT-CAA6-BIO-72	21-Sep-05	APCL	REG	SW5030	M8015V	III
54078	37IT-CAA6-BIO-72	21-Sep-05	APCL	REG	SW5030	SW8260B	III
54078	37IT-CAA6-BIO-73	21-Sep-05	APCL	REG	SW3510	M8015E	III
54078	37IT-CAA6-BIO-73	21-Sep-05	APCL	REG	SW5030	M8015V	III
54078	37IT-CAA6-BIO-73	21-Sep-05	APCL	REG	SW5030	SW8260B	III
54078	37IT-CAA6-BIO-74	21-Sep-05	APCL	REG	SW3510	M8015E	III
54078	37IT-CAA6-BIO-74	21-Sep-05	APCL	REG	SW5030	M8015V	III
54078	37IT-CAA6-BIO-74	21-Sep-05	APCL	REG	SW5030	SW8260B	III
54078	37IT-CAA6-BIO-75	21-Sep-05	APCL	REG	SW3510	M8015E	III

Table 1: Summary of Samples Collected, Sample Date,
Preparation Method, Analysis Method, and Data Review Level
Site CAA 6
Alameda NAS - CTO 101, Alameda, California

SDG	Field Sample ID	Sample Date	Lab	Sample Purpose	Extraction Method	Analytical Method	QC Level
54078	37IT-CAA6-BIO-75	21-Sep-05	APCL	REG	SW5030	M8015V	III
54078	37IT-CAA6-BIO-75	21-Sep-05	APCL	REG	SW5030	SW8260B	III
54078	37IT-CAA6-BIO-76	21-Sep-05	APCL	REG	SW3510	M8015E	III
54078	37IT-CAA6-BIO-76	21-Sep-05	APCL	REG	SW5030	M8015V	III
54078	37IT-CAA6-BIO-76	21-Sep-05	APCL	REG	SW5030	SW8260B	III
54078	37IT-CAA6-TB-77	21-Sep-05	APCL	TB	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-78	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-78	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-78	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-79	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-79	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-79	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-80	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-80	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-80	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-81	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-81	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-81	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-82	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-82	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-82	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-83	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-83	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-83	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-84	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-84	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-84	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-85	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-85	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-85	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-87	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-87	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-87	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-BIO-90	22-Sep-05	APCL	REG	SW3510	M8015E	III
54092	37IT-CAA6-BIO-90	22-Sep-05	APCL	REG	SW5030	M8015V	III
54092	37IT-CAA6-BIO-90	22-Sep-05	APCL	REG	SW5030	SW8260B	III
54092	37IT-CAA6-TB-91	22-Sep-05	APCL	TB	SW5030	SW8260B	III
54197	37IT-CAA6-BIO-92	29-Sep-05	APCL	REG	SW3510	M8015E	III
54197	37IT-CAA6-BIO-92	29-Sep-05	APCL	REG	SW5030	M8015V	III
54197	37IT-CAA6-BIO-92	29-Sep-05	APCL	REG	SW5030	SW8260B	III
54197	37IT-CAA6-TB-93	29-Sep-05	APCL	TB	SW5030	SW8260B	III

Notes:
SDG: Sample Delivery Group
APCL: Applied Physics & Chemistry Laboratory
REG: Regular Field Sample
TB: Trip Blank
III: Samples received Level three data review

Table 2
Data Qualification Flags and Reason Codes

Data Qualifier Definitions	
Qualifier	**Definition**
	No Qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Resampling and reanalysis may be necessary to confirm or deny the presence of the analyte. Results are rejected and data are unusable for any purposes.

Reason Codes for Data Review and Validation	
Reason Code	**Description**
A	Serial dilution outside criteria (Level IV).
B1	Method blank contaminants above reporting limit.
B2	Calibration blank contaminants above reporting limit.
B2, Bias Flag "-"	Calibration blank indicates negative interference, false negatives may be present.
C	Calibration outside control limits.
D1	Sample Duplicate RPD outside control limit.
D2	Matrix Duplicate RPD outside control limit.
E	The sample results exceed the linear calibration range of the instrument.
F	Hydrocarbon pattern does not match hydrocarbon pattern in the standard.
G1	Initial calibration RSD outside control limit.
G2	Initial continuing calibration RRF outside control limit.
G3	Continuing calibration RRF outside control limit.
H	Holding time exceeded.
I	Internal standard recovery outside control limit.
K1	Equipment rinsate contamination.
K2	Field blank contamination.
K3	Trip blank contamination.

Table 2
Data Qualification Flags and Reason Codes (Continued)

Reason Codes for Data Review and Validation	
Reason Code	**Description**
L	LCS outside control limits.
M	MS outside control limits.
O	Interference check sample outside acceptance criteria.
P	Analyte qualified based on the professional judgement of the reviewer.
S	Surrogate recovery outside control limit.
T	Temperature outside acceptance criteria.
Tr	Value reported detected between the MDL and PQL.
W	Pesticide breakdown outside criteria (Level IV).
X	Raised reporting limit due to matrix interference or high analyte concentration.
Y	Analyte was not confirmed by a second column.
Y1	Primary and Confirmation Sample Duplicate RPD outside control limit.

Table 3: Qualified Data Summary
Site CAA 6
Alameda NAS - CTO-101, Alameda, California

Sample Matrix	SDG	Analytical Method	Sample Date	Field Sample ID	Analyte	Result	Reporting Limit	Units	Qualifier	Reason Code
SOIL	35545	SW6010B	3-Oct-03	101-PAR37-SOIL-001	LEAD	3	1.1	mg/kg	J	A
SOIL	35545	SW6010B	3-Oct-03	101-PAR37-SOIL-002	LEAD	8.3	1.1	mg/kg	J	A
SOIL	35545	SW6010B	3-Oct-03	101-PAR37-SOIL-003	LEAD	1.7	1.1	mg/kg	J	A
SOIL	35545	SW6010B	3-Oct-03	101-PAR37-SOIL-004	LEAD	2.2	1.2	mg/kg	J	A
SOIL	35545	SW6010B	3-Oct-03	101-PAR37-SOIL-005	LEAD	4	1.1	mg/kg	J	A
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-001	2-BUTANONE (MEK)	<5500	5500	ug/kg	U	B1
SOIL	35545	M8015V	3-Oct-03	101-PAR37-SOIL-002	GASOLINE RANGE ORGANICS	<0.57	0.57	mg/kg	U	B1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-002	2-BUTANONE (MEK)	<5700	5700	ug/kg	U	B1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-003	2-BUTANONE (MEK)	<62	62	ug/kg	U	B1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-003	ACETONE	<62	62	ug/kg	U	B1
SOIL	35545	M8015V	3-Oct-03	101-PAR37-SOIL-004	GASOLINE RANGE ORGANICS	<0.59	0.59	mg/kg	U	B1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-004	2-BUTANONE (MEK)	<61	61	ug/kg	U	B1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-004	ACETONE	<61	61	ug/kg	U	B1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-005	2-BUTANONE (MEK)	<58	58	ug/kg	U	B1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-005	ACETONE	<58	58	ug/kg	U	B1
WATER	41815	M8015V	25-Feb-04	101-PAR37-DVE-021	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	41815	M8015V	25-Feb-04	101-PAR37-DVE-022	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	41815	M8015V	25-Feb-04	101-PAR37-DVE-026	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	41815	M8015V	25-Feb-04	101-PAR37-DVE-028	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	41815	M8015V	25-Feb-04	101-PAR37-DVE-031	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	41815	M8015V	25-Feb-04	101-PAR37-DVE-033	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	41815	M8015V	25-Feb-04	101-PAR37-DVE-034	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54078	M8015V	21-Sep-05	37IT-CAA6-BIO-71	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54078	M8015V	21-Sep-05	37IT-CAA6-BIO-72	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54078	M8015V	21-Sep-05	37IT-CAA6-BIO-73	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54078	M8015V	21-Sep-05	37IT-CAA6-BIO-74	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54078	M8015V	21-Sep-05	37IT-CAA6-BIO-75	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54078	M8015V	21-Sep-05	37IT-CAA6-BIO-76	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-78	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-79	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-81	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-83	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-84	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-85	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-87	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	54092	M8015V	22-Sep-05	37IT-CAA6-BIO-90	GASOLINE RANGE ORGANICS	<0.05	0.05	mg/L	U	B1
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-020	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-021	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-022	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-023	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-024	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-025	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-026	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-027	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-028	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-029	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-032	LEAD	<10	10	ug/L	U	B2

Table 3: Qualified Data Summary
Site CAA 6
Alameda NAS - CTO-101, Alameda, California

Sample Matrix	SDG	Analytical Method	Sample Date	Field Sample ID	Analyte	Result	Reporting Limit	Units	Qualifier	Reason Code
WATER	41815	SW6010B	25-Feb-04	101-PAR37-DVE-034	LEAD	<10	10	ug/L	U	B2
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-021	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-022	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-023	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-024	ACETONE	<500	500	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-024	METHYLENE CHLORIDE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-025	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-026	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-027	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-027	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-028	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-028	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-029	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-029	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-030	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-030	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-031	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-031	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-032	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-032	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-033	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-033	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-034	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-034	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-035	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-035	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-TB-036	ACETONE	<50	50	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-TB-036	METHYLENE CHLORIDE	<5	5	ug/L	UJ	C
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	METHYLENE CHLORIDE	<5	5	ug/L	UJ	CS
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-001	BROMOMETHANE	<550	550	ug/kg	UJ	G1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-002	BROMOMETHANE	<570	570	ug/kg	UJ	G1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-003	BROMOMETHANE	<6.2	6.2	ug/kg	UJ	G1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-004	BROMOMETHANE	<6.1	6.1	ug/kg	UJ	G1
SOIL	35545	SW8260B	3-Oct-03	101-PAR37-SOIL-005	BROMOMETHANE	<5.8	5.8	ug/kg	UJ	G1
SOIL	35545	M8015E	3-Oct-03	101-PAR37-SOIL-002	DIESEL RANGE ORGANICS	20	11	mg/kg	J	S
SOIL	35545	M8015E	3-Oct-03	101-PAR37-SOIL-002	JP-5 (C8-C16)	226	11	mg/kg	J	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,1,1,2-TETRACHLOROETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,1,1-TRICHLOROETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,1,2,2-TETRACHLOROETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,1,2-TRICHLOROETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,1-DICHLOROETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,1-DICHLOROETHENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,1-DICHLOROPROPENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2,3-TRICHLOROBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2,3-TRICHLOROPROPANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2,4-TRICHLOROBENZENE	<0.5	0.5	ug/L	UJ	S

Table 3: Qualified Data Summary
Site CAA 6
Alameda NAS - CTO-101, Alameda, California

Sample Matrix	SDG	Analytical Method	Sample Date	Field Sample ID	Analyte	Result	Reporting Limit	Units	Qualifier	Reason Code
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2,4-TRIMETHYLBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2-DIBROMO-3-CHLOROPROPANE	<2	2	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2-DIBROMOETHANE (EDB)	<2	2	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2-DICHLOROBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2-DICHLOROETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,2-DICHLOROPROPANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,3,5-TRIMETHYLBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,3-DICHLOROBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,3-DICHLOROPROPANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	1,4-DICHLOROBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	2,2-DICHLOROPROPANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	2-BUTANONE (MEK)	<50	50	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	2-CHLOROTOLUENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	2-HEXANONE	<50	50	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	4-CHLOROTOLUENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	4-ISOPROPYLTOLUENE	1.5	0.5	ug/L	J	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	4-METHYL-2-PENTANONE (MIBK)	<50	50	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	BENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	BROMOBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	BROMOCHLOROMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	BROMODICHLOROMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	BROMOFORM	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	BROMOMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	CARBON DISULFIDE	<50	50	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	CARBON TETRACHLORIDE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	CHLOROBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	CHLOROETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	CHLOROFORM	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	CHLOROMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	CIS-1,2-DICHLOROETHENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	DIBROMOCHLOROMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	DIBROMOMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	DICHLORODIFLUOROMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	DIISOPROPYL ETHER (DIPE)	<5	5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	ETHYLBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	HEXACHLOROBUTADIENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	ISOPROPYLBENZENE (CUMENE)	2.8	0.5	ug/L	J	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	METHYL-T-BYTYL ETHER (MTBE)	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	N-BUTYLBENZENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	N-PROPYLBENZENE	2.3	0.5	ug/L	J	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	NAPHTHALENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	SEC-BUTYLBENZENE	13.8	0.5	ug/L	J	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	STYRENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	T-BUTYL ALCOHOL (TBA)	<50	50	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	TERT-BUTYLBENZENE	2.1	0.5	ug/L	J	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	TETRACHLOROETHENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	TOLUENE	<0.5	0.5	ug/L	UJ	S

Table 3: Qualified Data Summary
Site CAA 6
Alameda NAS - CTO-101, Alameda, California

Sample Matrix	SDG	Analytical Method	Sample Date	Field Sample ID	Analyte	Result	Reporting Limit	Units	Qualifier	Reason Code
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	TRANS-1,2-DICHLOROETHENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	TRICHLOROETHENE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	TRICHLOROFLUOROMETHANE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	VINYL CHLORIDE	<0.5	0.5	ug/L	UJ	S
WATER	41815	SW8260B	25-Feb-04	101-PAR37-DVE-020	XYLENE (TOTAL)	<1	1	ug/L	UJ	S
WATER	41815	M8015E	25-Feb-04	101-PAR37-DVE-027	DIESEL RANGE ORGANICS	1.14	0.048	mg/L	J	S
WATER	41815	M8015E	25-Feb-04	101-PAR37-DVE-027	JP-5 (C8-C16)	<0.048	0.048	mg/L	UJ	S
WATER	41815	M8015E	25-Feb-04	101-PAR37-DVE-027	MOTOR OIL RANGE ORGANICS	0.5	0.48	mg/L	J	S
SOIL	44231	M8015E	25-Aug-04	101-CAA6-SO-003	JP-5 (C8-C16)	9430	68	mg/kg	J	S
SOIL	44231	M8015E	25-Aug-04	101-CAA6-SO-003	MOTOR OILS	<11000	11000	mg/kg	UJ	S
SOIL	44231	M8015E	25-Aug-04	101-CAA6-SO-003	PHC AS DIESEL FUEL	<1100	1100	mg/kg	UJ	S
WATER	54078	M8015E	21-Sep-05	37IT-CAA6-BIO-73	JP-5	<0.048	0.048	mg/L	UJ	S
WATER	54078	M8015E	21-Sep-05	37IT-CAA6-BIO-73	PHC AS DIESEL FUEL	0.66	0.048	mg/L	J	S
WATER	54078	M8015E	21-Sep-05	37IT-CAA6-BIO-76	JP-5	<0.048	0.048	mg/L	UJ	S
WATER	54078	M8015E	21-Sep-05	37IT-CAA6-BIO-76	PHC AS DIESEL FUEL	0.19	0.048	mg/L	J	S
SOIL	35545	M8015E	3-Oct-03	101-PAR37-SOIL-002	MOTOR OIL RANGE ORGANICS	30	110	mg/kg	J	STr
WATER	54078	M8015E	21-Sep-05	37IT-CAA6-BIO-73	MOTOR OILS	0.07	0.48	mg/L	J	STr
WATER	54078	M8015E	21-Sep-05	37IT-CAA6-BIO-76	MOTOR OILS	0.07	0.48	mg/L	J	STr

Notes:

SDG:	Sample Delivery Group
mg/kg:	Milligrams per kilogram
mg/L:	Milligrams per liter
ug/kg:	Micrograms per kilogram
ug/L:	Micrograms per liter
Diesel:	Carbon range of C10-C24 was used for diesel quantitation
Motor Oil:	Carbon range of C24-C36 was used for motor oil quantitation
JP-5:	Carbon range of C8-C16 was used for JP-5 quantitation

See Table 2 for definitions of qualifiers and reason codes.

Appendix H
Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

15669

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA2170023236

Manifest Document No. 15669

2. Page 1 of 1

3. Generator's Name and Mailing Address
RGCC - Alameda Point
2450 Saratoga St. Suite 200 Alameda CA 94501

Non-Haz Man# 15669

4. Generator's Phone (510) 749-5940 Attn: Gregory Grace

5. Transporter 1 Company Name: Debeste Transportation

6. US EPA ID Number: CAD982513632

A. State Transporter's ID

B. Transporter 1 Phone (707) 838-1407

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Chemical Waste Management
35251 Old Skyline Road
Kettleman City CA 93239

10. US EPA ID Number: CAT000646117

E. State Facility's ID

F. Facility's Phone (559) 386-9711

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-hazardous waste liquid (non-hazardous sediment, sand),	09	DM	04500	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
11a 9 x55gal. n-bulk. Profile# EB-3210

Parcel-37 CTO-101 Alameda Point

H. Handling Codes for Wastes Listed Above
a. 8 15/03

15. Special Handling Instructions and Additional Information
Caution: Wear appropriate protective clothing and respiratory protection when handling.
All Weights / Volumes are Approximate
Site pick up address Alameda Point Alameda CA

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Gregory J. Grace
Signature: Gregory J. Grace
Date: Month 01 Day 29 Year 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MIKE FINDLAY
Signature: [illegible]
Date: Month 01 Day 29 Year 04

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: T. Stephens
Signature: T. Stephens
Date: Month 01 Day 29 Year 04

NON-HAZARDOUS WASTE

PRINTED ON RECYCLED PAPER USING SOYBEAN INK
PRINTED WITH SOY INK

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

NON-HAZARDOUS WASTE MANIFEST 15692

GENERATOR: ROICC - Alameda Point
MAILING ADDRESS: 2450 Saratoga St Suite 200
CITY, STATE, ZIP: Alameda, CA 94501
PHONE: (510) 749-5940
CONTACT PERSON: Gregory Grace
SIGNATURE OF AUTHORIZED AGENT / TITLE: * BR Ferrin
DATE: 9-2-04

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, **If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
☒ DISPOSAL ☐ SLUDGE
☐ CONSTRUCTION ☐ WOOD
☐ DEBRIS ☐ OTHER
☐ SPECIAL WASTE

GENERATING FACILITY: CTD-101, Parcel 37, CAA-6, Soil Cuttings

WASTE ACCEPTANCE NO. — 3025

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☐ OTHER

SPECIAL HANDLING PROCEDURES:
BIN # DB10000

RECEIVING FACILITY

TRANSPORTER: Dillard Environmental
ADDRESS: P.O. Box 579
CITY, STATE, ZIP: Byron, CA 94514
PHONE: (925) 634-6850
SIGNATURE OF AUTHORIZED AGENT OR DRIVER: *
DATE: 9-2-04

NOTES:

VEHICLE LICENSE NUMBER	TRUCK NUMBER
CP 35626	185

END DUMP	BOTTOM DUMP	TRANSFER
☐	☐	☐

ROLL-OFF(S)	FLAT-BED	VAN	DRUMS
☒	☐	☐	☐

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT: *
DATE

CUBIC YARDS: 14

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

	DISPOSE	OTHER
☐ SOIL		
☐ CONSTRUCTION DEBRIS		
☐ NON-FRIABLE ASBESTOS		
☐ WOOD		
☐ ASH		
☐ SPECIAL OTHER		

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST # 64107

GENERATOR COPY