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MOFFETT FIELD
SSIC NO. 5090.3

QUARTERLY POST-CLOSURE MONITORING REPORT
MOFFETT FEDERAL AIRFIELD
MOFFETT FIELD, CALIFORNIA

CONTRACT NO. N62474-93-D-2151
DELIVERY ORDER 0108

Submitted to:

Department of the Navy
Southwest Division
Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, California 92132-5187

Submitted by:

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Revision 0

February 2000

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A Member of The IT Group

February 4, 2000

784347-ITNHO-1022

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Addressee: Mr. Ed Dias, Code 5SEN.ED

Contract: N62474-93-D-2151, Environmental Remediation Contract for Sites in Northern and Central California and in Nevada

Subject: Quarterly Post-Closure Monitoring Report (2nd Quarter), Delivery Order No. 0108, Sites 1 and 2 Monitoring and Landfill Maintenance, Moffett Federal Airfield, Moffett Field, California

Dear Mr. Dias:

Enclosed are three (3) copies of the 2nd Quarter Post-Closure Monitoring Report for the Sites 1 and 2 Landfills at Moffett Federal Airfield. Sampling and Monitoring was performed on October 18, and 19, 1999. The report includes summary tables of the analytical results. Copies have also been sent directly to the individuals listed below.

Should you have any questions or require further information, please contact the undersigned at (925) 288-9898.

Sincerely,
IT CORPORATION

Dennis R. Julio, P.E.
Project Manager
D.O. 0108

Don Marini, P.E.
Deputy Program Manager
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Enclosure

cc: Mr. Al Fung, EFA West, Code 7022 (w/o enclosure)
Mr. Hubert Chan, EFA West RPM, Code 6421
Mr. Don Chuck, Moffett Field, RPM (including complete copy of original laboratory data)
Mr. Jerry Taleghani, Moffett Field, ROICC
Mr. Timothy Mower, Tetra Tech EM Inc. (including electronic version of data)
Ms. Rose Condit, IT
Nancy Jaquet/Susanne Cantin (COTR File)
Project Files

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Table 1 Field Duplicate Summary

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Acronyms and Abbreviations

µg/L	micrograms per liter
%D	percent difference
APCL	Applied Physics and Chemistry Laboratory
CCV	continuing calibration verification
CLP	Contract Laboratory Program
DCB	decachlorobiphenyl
EPA	U.S. Environmental Protection Agency
GC/MC	gas chromatograph/mass spectrometer
ICP	Inductively Coupled Plasma
ICS	interference check sample
ID	identification number
IT	IT Corporation
LCS	Laboratory Control Samples
MFA	Moffett Federal Airfield
MS/MSD	matrix spike/matrix spike duplicate
NFESC	Naval Facilities Engineering Services Center
OU1	Operable Unit 1
PCB	polychlorinated biphenyl
PQL	practical quantitation limit
RPD	relative percent difference
RSD	relative standard deviation
SDG	sample delivery group
SVOA	semivolatile organic analysis
TCE	trichloroethylene
TCMX	tetrachloro-m-xylene
TOC	total organic compound
TPH	total petroleum hydrocarbons
VOA	volatile organic analysis
VOC	volatile organic compound

1.0 Introduction

This report documents the quarterly post-closure monitoring of Operable Unit 1 (OU1) at Moffett Federal Airfield (MFA), California, performed by IT Corporation (IT) for the 4th Quarter, 1999. IT conducted monitoring activities in compliance with the June 1999 document entitled, *Sampling and Analysis Plan, Postclosure Monitoring (Site 1) and Groundwater Monitoring (Site 2).* OU1 consists of two landfills: Runway Landfill (Site 1) and the former Golf Course Landfill (Site 2). Quarterly monitoring was performed on October 18 and 19, 1999. This report summarizes the analytical and field results obtained during this sampling event and includes the following information:

- Landfill gas monitoring results
- Analytical results from groundwater monitoring
- Data quality assessment report.

2.0 Landfill Gas Sampling

Landfill gas sampling was performed from 19 passive gas vents and 4 landfill gas monitoring wells at Site 1. The locations of all gas monitoring points are shown on Figure 1. Landfill gas monitoring was performed using a Landtec GA 90™ portable methane monitor. Results from methane monitoring at each sampling location are shown below.

Monitoring Location	% Methane in Landfill Gas	Monitoring Location	% Methane in Landfill Gas
Gas Venting Points			
GV-1	14.2	GV-11	61.2
GV-2	1.3	GV-12	19.8
GV-3	0	GV-13	19.5
GV-4	0	GV-14	7.2
GV-5	23.0	GV-15	0
GV-6	6.8	GV-16	0.7
GV-7	48.0	GV-17	0.6
GV-8	45.9	GV- 18	0
GV-9	1.0	GV-19	0
GV-10	28.5		
Landfill Gas Monitoring Wells			
LGMW1-1	0	LGMW 1-3	0
LGMW1-2	0	LGMW 1-4	0

3.0 Groundwater Monitoring

Groundwater samples were collected from nine monitoring wells at Site 1 and from six monitoring wells at Site 2. The monitoring well identification numbers (IDs) and analyses performed at each well are shown below. Water level measurements were collected from 14 wells and piezometers at Site 1 and eight wells at Site 2. The locations of all groundwater sampling/measurement points are shown on Figure 1 for Site 1, and on Figure 2 for Site 2. Water level measurement data are presented in Appendix A.

ID	Analyses
Site 1	
W1-1	Monitoring well not found
W1-5 W1-8 W1-12 W1-14 W1-15 W1-16 W1-19 W1-22 W1-23	Volatile Organic Compounds (EPA 8260) Total Metals (EPA 6010B) Dissolved Metals (EPA 6010B) Pesticides/PCBs (EPA 8081/8082) Total Organic Carbon (EPA 415.1) Nitrite/Nitrate as Nitrogen (EPA 353.1)
W1-24	Not installed
Site 2	
W2-5 W2-6 W2-12 W2-14 W2-15 W2-16	CLP SOW Volatile Organic Analysis CLP SOW Semivolatile Organic Analysis CLP Pesticides/PCBs Total Petroleum Hydrocarbons as Diesel and Motor Oil (EPA 8015)

CLP denotes Contract Laboratory Program
EPA denotes U.S. Environmental Protection Agency
PCB denotes polychlorinated biphenyl
SOW denotes Statement of Work

All monitoring well sampling was performed using low flow micro-purging techniques. Field parameters such as pH, temperature, conductivity, turbidity, and oxidation/reduction potential were measured throughout the well purging procedure. The field parameter data are recorded on the Groundwater Monitoring Data Forms, which are included in Appendix A. A summary of analytical results for each monitoring well is provided in Appendix B.

4.0 Data Quality Assessment

Quarterly groundwater samples collected from monitoring wells located at the MFA Site 1 and 2 were sent to Applied Physics and Chemistry Laboratory (APCL) in Chino, California. APCL is a State of California-certified and Naval Facilities Engineering Services Center (NFESC)-approved laboratory. Sampling was performed by IT personnel according to the approved SAP. Samples collected at Site 1 were analyzed by APCL according to the requirements of the following documents:

- U.S. Environmental Protection Agency (EPA) SW-846, Test Methods for Evaluating Solid Waste, Third Edition December, 1996
- EPA-600/4-79-020 Methods of Chemical Analysis of Water and Wastes, 1983

Samples collected at Site 2 were analyzed by APCL according to the EPA CLP procedures for organic analyses SOW (OLM 4.0)

Data evaluation/validation was performed by an IT Project Chemist following the CLP National Functional Guidelines for Organic and Inorganic Data Review, February 1994. The results of analysis for all samples are summarized in the tables in Appendix B. Data qualifying flags are applied to the data in the summary tables according to the data validation findings. The following data qualifying flags were applied:

- U —The analyte was analyzed for, but not detected. The associated numerical value is at or below the practical quantitation limit (PQL).
- B —The analyte was also detected in the associated blanks.
- J —The analyte was positively identified; the quantitation is an estimate.
- UJ—The analyte was not detected, and the associated PQL is an estimate.

Sample results were reported by APCL in three sample delivery groups (SDGs) as shown below.

SDG # 99-6350	SDG # 99-6405	SDG # 99-6403
W1-5	W1-12	W2-5
W1-8	W1-14	W2-6
W1-15	W1-23	W2-12
W1-16	Trip Blank #2	W2-14
W1-19		W2-15
W1-22		W2-16
W99-1 (field duplicate of W1-19)		W99-2 (field duplicate of W2-15)
Trip Blank #1		Trip Blank

4.1 Sample Receipt, Storage, and Holding Times

All samples were received by APCL within one to two days after sample collection. Samples that could not be shipped on the day they were collected were maintained in the custody of the IT Project Chemist, in a locked cold storage, until they could be shipped. All of the samples were received at the laboratory within the required temperature range of 2 to 6° C. All of the samples were extracted and analyzed within the required holding times as stated by the methods.

4.2 Volatile Organic Compounds

A total of 20 samples were analyzed for volatile organic compounds (VOCs) by either EPA Method 8260 or CLP-volatile organic analysis (VOA). This total includes 15 monitoring well samples, 2 field duplicates, and 3 trip blanks.

4.2.1 Gas Chromatograph/Mass Spectrometer Tuning

Gas Chromatograph/Mass Spectrometer (GC/MS) tuning was performed on 12-hour intervals as specified by the method. All tuning criteria for ion abundances were within the method-specified ranges.

4.2.2 Initial and Continuing Calibration

All requirements for initial calibration were met for all SDGs. Continuing calibration verifications were performed at the required frequency for all three SDGs. All continuing calibrations met the established criteria.

4.2.3 Blanks

Target compounds were not detected in the VOC method blanks or trip blanks with the exception of methylene chloride in the trip blank associated with SDG 99-6350. Methylene chloride and acetone are common laboratory contaminants and were detected in the blanks and samples shown below.

Samples	Acetone (µg/L)	Methylene Chloride (µg/L)
Method Blank – EPA 8260	8.7U	2.0U
Trip Blank #1	8.7U	0.9
W1-19, W1-8, W1-5, W1-15, W1-16, W99-1	8.7U	0.9 to 1.0
Trip Blank #2	8.7U	2.0U
W1-12, W1-14, W1-23	8.7U	0.7 to 0.9
Method Blank – CLP VOA	2.0U	2.0U
Trip Blank CLP	3.0	1.0
W2-5, W2-6, W2-14, W2-14, W2-15, W99-2	1.0 to 2.0	2.0U to 0.6
W2-16	5.0	0.6

U indicates that the analyte was analyzed for, but not detected. The associated numerical value is at or below the practical quantitation limit.

Concentrations of methylene chloride and acetone detected below the PQL were reported as not detected at the PQL, and flagged with a U qualifier. Concentrations of methylene chloride and acetone detected in the samples above the PQL were flagged with a B qualifier indicating that analytes were also detected in the associated trip or method blank samples.

4.2.4 Surrogate Compound Recoveries

All surrogate compound recoveries were within the established control limits for all samples analyzed, with two exceptions. One surrogate compound, 4-bromofluorobenzene, was recovered at 79% and 78% in sample numbers W1-12 and W1-23, respectively, which is below the lower control limit of 80%. All three other surrogates were in control for the analysis. No corrective action was taken due to these minor deficiencies. Data usability was not affected.

4.2.5 Laboratory Control Samples

All percent recoveries were within the specified control limits for the Laboratory Control Samples (LCS) in all SDGs.

4.2.6 Matrix Spike/Matrix Spike Duplicate

Four site-specific matrix spike/matrix spike duplicate (MS/MSD) pairs were analyzed for this sampling event. Sample numbers W1-19, W1-22, W1-14, and W2-5 were used for the MS/MSD pairs in SDG 99-6350, 99-6405, and 99-6403. All analyte recoveries and relative percent differences (RPDs) were within the established control limits, with one exception.

The RPD of trichloroethylene (TCE) between the MS/MSD of sample W2-5 was 17%, which was slightly above the control limit of 14%. Corrective action was not taken due to this anomaly, and the data usability was not affected.

4.2.7 Internal Standard Performance

All internal standard results were within the method-specified limits.

4.2.8 Compound Identification

All sample spectra met the compound identification criteria.

4.2.9 System Performance and Other Observations

No adverse changes were observed in instrument performance during sample analysis.

4.3 Contract Laboratory Program Semivolatile Organic Analysis

A total of seven samples were submitted for CLP semivolatile compound analysis from Site 2, including six monitoring well samples and 1 field duplicate sample. The data were reported in SDG 99-6403.

4.3.1 Gas Chromatograph/Mass Spectrometer Tuning

GC/MS tuning was performed within the specified 12-hour time interval. All ion abundances met the specified tuning criteria for the method.

4.3.2 Initial and Continuing Calibration

All compounds met the requirements for initial calibration and continuing calibration for CLP semivolatile organic analysis (SVOA) with the exceptions noted below.

SVOA compounds not meeting the CLP criteria for relative standard deviation (RSD) of 30% are as follows:

Compound	Initial Calibration RSD
4,6-dinitro-2-methyl phenol	38.29%
2,4-dinitrophenol	42.04%
2,4,6-tribromophenol	40.70%
Pentachlorophenol	34.90%

The relative response factor for all four of these compounds was greater than the method requirement of 0.05, and none of these compounds were detected in the project samples analyzed. Qualification of the data was not required based on this deficiency.

Both continuing calibration verification (CCV) standards associated with project sample analysis met the method specific criteria of maximum percent difference (%D) less than 25% for all compounds with the exceptions shown below.

Compound	Continuing Calibration %D
Date:10/25/99 (samples affected: W2-6MSD, W2-6, W2-5, W2-12, W2-14, W2-16, W2-99)	
Di-n-octylphthalate	26.4
2-Methyphenol	34.8
2,4,6-Trichlorophenol	37.6
3',3'-Dichlorobenzidine	37.6
Date:10/25/99 (samples affected: W2-6MS)	
Di-n-octylphthalate	34.8
2,4,6-Tribromophenol	37.7
2,4,6-Trichlorophenol	31.4
Benzo(k)fluoranthene	29.8
3',3'-Dichlorobenzidine	32.3

None of these compounds were detected in any of the project samples. The results were qualified as estimates (UJ) based on the CCV deficiencies shown above. Data usability was not affected.

4.3.3 Blanks

One method blank was extracted and analyzed with SDG 99-6403. No semivolatile compounds were detected in the method blank.

4.3.4 Surrogate Compound Recoveries

All surrogate compound recoveries were within the specified control limits.

4.3.5 Laboratory Control Samples

One LCS/LCS duplicate pair was extracted and analyzed with SDG 99-6403. All recoveries and RPDs were within the specified control limits.

4.3.6 Matrix Spike/Matrix Spike Duplicate

One project-specific MS/MSD pair was analyzed with this SDG. Sample number W2-6 was used for the MS/MSD samples. All recoveries and RPDs were within the specified control limits.

4.3.7 Internal Standard Performance

All internal standard results were within the specified control limits.

4.3.8 Compound Identification

All sample spectra met compound identification criteria.

4.3.9 System Performance and Other Observations

No adverse changes were observed in instrument performance during sample analysis.

4.4 Pesticides and Polychlorinated Biphenyls

A total of 17 samples were analyzed for pesticides and polychlorinated biphenyls (PCBs) by either EPA Methods 8081/8082 or CLP Pesticide/PCB. This total includes 15 monitoring well samples and two field duplicate samples.

4.4.1 Pesticides Instrument Performance

All peak separation, retention time window, and degradation/breakdown criteria were within the method-specified control limits.

4.4.2 Initial and Continuing Calibration

The initial calibration for each individual pesticide and for PCBs met all of the method-specified criteria. All continuing calibration verifications were analyzed at the required time intervals and met the established method acceptance criteria for all pesticides and PCBs.

4.4.3 Blanks

Individual pesticides and PCBs were not detected in the method extraction blanks or instrument blanks.

4.4.4 Surrogate Compound Recoveries

Surrogate compounds tetrachloro-m-xylene (TCMX) and decachlorobiphenyl (DCB) were recovered within the specified control limits of 30% to 150% for all samples and blanks analyzed.

4.4.5 Laboratory Control Samples

One LCS/LCS duplicate pair were extracted and analyzed with each method. All recoveries and RPDs were within the specified control limits for the method.

4.4.6 Matrix Spike/Matrix Spike Duplicate

Two site-specific MS/MSD pairs were analyzed for this sampling event. Sample number W1-19 was used for the MS/MSD for SDG 99-6405 and was spiked with pesticides only. Sample number W2-6 was used for the MS/MSD for SDG 99-6403 and was spiked with PCBs only. All analyte recoveries and RPDs were within the established control limits.

4.4.7 Compound Identification

The pesticides analysis for one sample, W1-23, exhibited a very noisy baseline on both columns. Several noise peaks were reported as low concentrations of pesticides based on retention time. On closer examination of the chromatograms, the peak shape and retention time shifts between columns are not characteristic of true pesticide chromatograms. The pesticides were reported as not detected (U) at the PQL.

4.5 Total Petroleum Hydrocarbons

A total of seven samples were analyzed for total petroleum hydrocarbons (TPH) as diesel and motor oil and were reported in SDG 99-6403. This total includes six monitoring well samples and one field duplicate sample.

4.5.1 Initial and Continuing Calibration

The initial calibration for diesel and motor oil met the method-specified criteria. All continuing calibration verifications were analyzed at the required time intervals and met the established method acceptance criteria for both diesel and motor oil.

4.5.2 Blanks

Diesel and motor oil were not detected in the method extraction blank.

4.5.3 Surrogate Compound Recoveries

The surrogate compound octacosane was recovered within the specified control limits for all samples and blanks analyzed.

4.5.4 Laboratory Control Samples

One LCS/LCS duplicate pair was extracted and analyzed with SDG 99-6403. All percent recoveries and RPDs were within the specified control limits for the diesel.

4.5.5 Matrix Spike and Matrix Spike Duplicate

One project-specific MS/MSD pair was analyzed with this SDG. Sample number W2-6 was used for the MS/MSD sample. The percent recovery and RPD for diesel in the MS/MSD of W2-6 was within the specified control limits for the method.

4.6 Inorganic Parameters

A total of ten samples were analyzed for metals by EPA Method 6010B. This total includes nine monitoring well sample and one field duplicate sample. All samples were analyzed twice, as total and dissolved metals. The data were reported in both SDGs 99-6405 and 99-6350.

4.6.1 Initial and Continuing Calibration

All initial and continuing calibration criteria for metals were met.

4.6.2 Blanks

The following analytes were detected in either the preparation blank and/or the continuing calibration blank: arsenic, beryllium, barium, copper, cobalt, nickel, vanadium, and thallium. All samples results less than five times the associated blank concentrations have been reported as not detected (U) at the PQL.

4.6.3 Interference Check Sample

All interference check sample (ICS) recoveries were within the required control limits.

4.6.4 Laboratory Control Samples

All LCS and LCS duplicate recoveries were within the established control limits.

4.6.5 Matrix Spike Sample Analysis

One MS was analyzed with each SDG. Sample W1-12 (filtered) was used for the MS with SDG 99-6405, and sample W1-19 (dissolved) was used for the MS/MSD with SDG 99-6354. All analyte recoveries were within the established control limits for W1-12 MS/MSD.

All metals were recovered within the established control limits in the W1-19 MS/MSD, with one exception. Thallium was recovered at 66% and 65% in the MS and MSD, respectively. A post-digestion spike was performed and confirmed a matrix interference, with thallium still recovered below the control limit of 75%. Thallium was not detected in sample W1-19, and the results were qualified as "UJ" indicating that the analyte was not detected and the quantitation limit is approximated due to the possible low bias.

4.6.6 Inductively Coupled Plasma Serial Dilution

The RPDs for the Inductively Coupled Plasma (ICP) serial dilution of sample W1-12 and W1-19 were all within the acceptable limits.

4.6.7 General Analytical Observations

Seven samples, W1-5, W1-8, W1-15, W1-16, W1-19, W1-22, and W99-1, were all diluted two to five times for metals analysis due to sodium saturating the ICP detector. All reporting limits for these samples were raised according to the dilution.

4.7 Field Duplicates

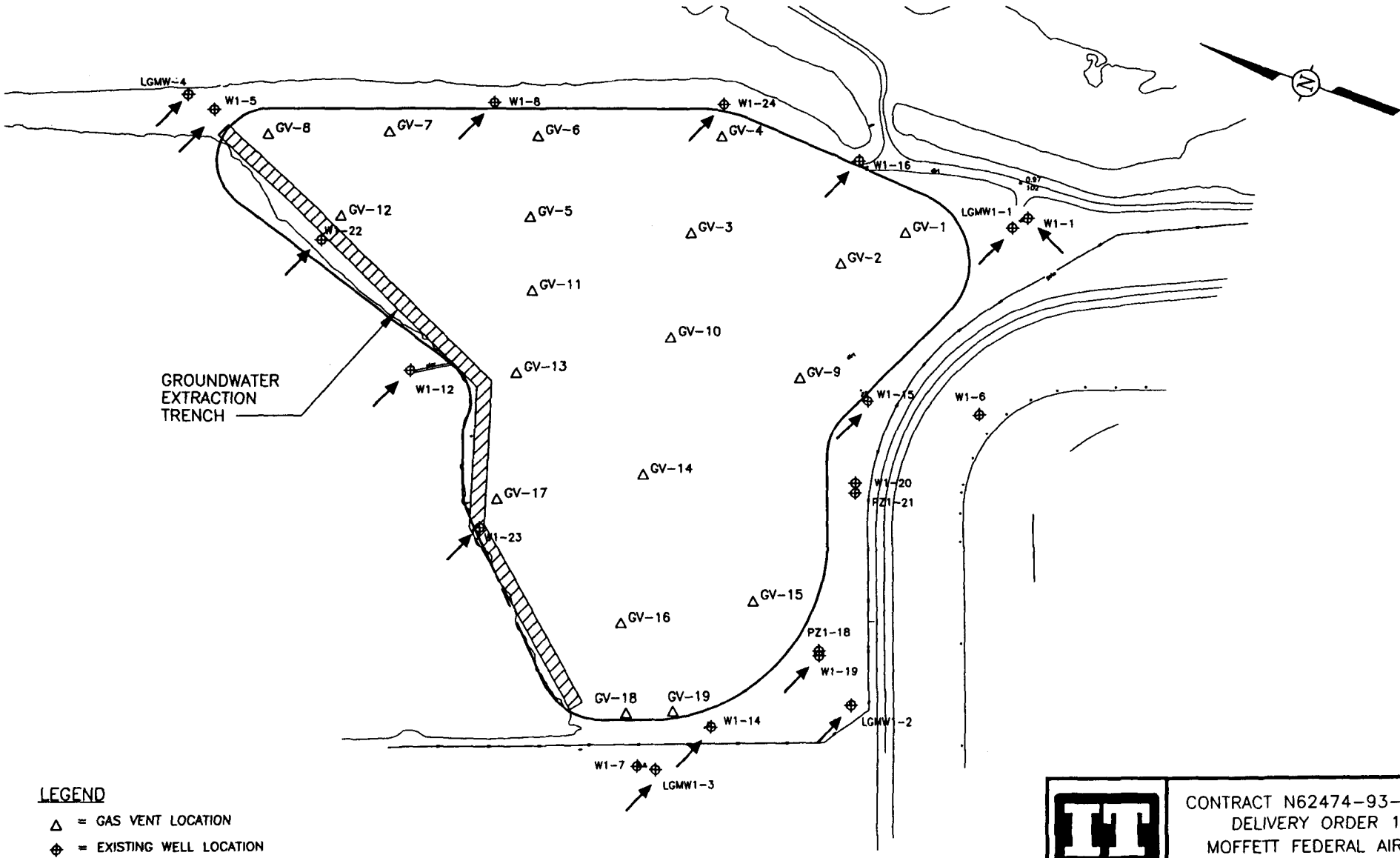
Two field duplicates were collected and analyzed during this sampling event. The field duplicate results are summarized in Table 1. The field duplicate precision indicates acceptable sampling and analytical precision.

4.8 Overall Assessment

The laboratory data generated from the fourth quarter sampling event for 1999 are indicative of acceptable analytical performance. The discrepancies noted do not invalidate the data for its intended use. All of the data collected are valid and usable for the purpose of groundwater monitoring.

FIGURES

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER	773	A14
---	---	MTZ	SJZ	9/28/93							



LEGEND

△ = GAS VENT LOCATION

⊕ = EXISTING WELL LOCATION

LGMW = LANDFILL GAS MONITORING WELL

W = GROUNDWATER MONITORING WELL
W1-22 AND W1-23 = GROUNDWATER EXTRACTION WELLS

PZ = PIEZOMETER WELL

↗ = WELLS TO BE MONITORED

—— APPROXIMATE SITE 1 BOUNDARY

SCALE

0 200 400 FEET

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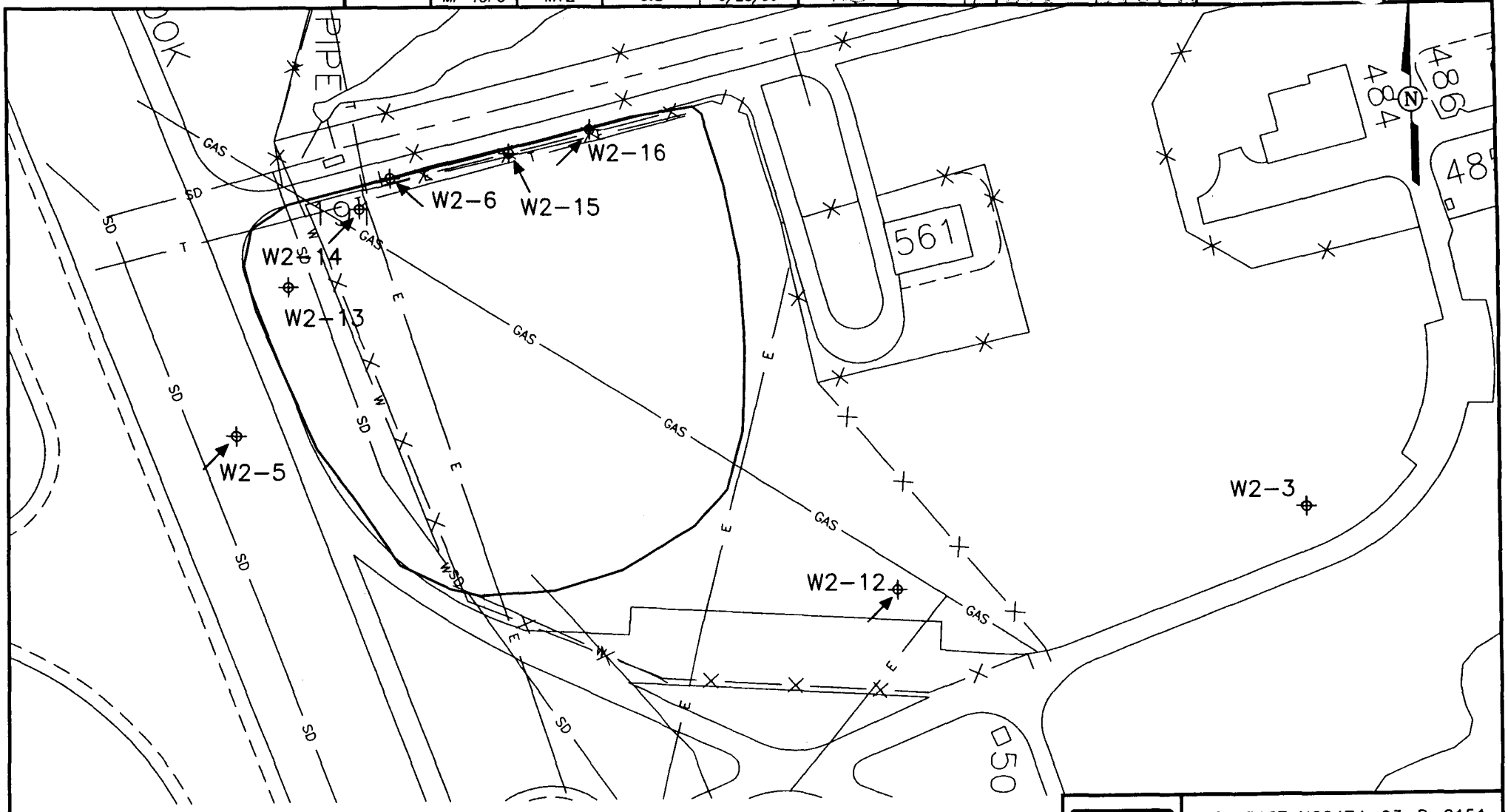
DELIVERY ORDER 108
MOFFETT FEDERAL AIRFIELD
MOFFETT FIELD, CALIFORNIA

FIGURE 1

MONITORING WELL AND
GAS VENT LOCATIONS
LANDFILL SITE 1

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		DRAWING NUMBER	
---	MF-TOPO	MTZ	SJZ	9/28/		10.1.99			773	A14



LEGEND

- EXISTING WELL LOCATION
- W = GROUNDWATER MONITORING WELL
- = WELLS TO BE MONITORED
- APPROXIMATE SITE 2 BOUNDARY
- GAS — EXISTING UNDERGROUND GAS LINE (PHOTO 4/26/96)
- T — EXISTING UNDERGROUND TELEPHONE LINE
- E — EXISTING UNDERGROUND ELECTRICAL LINE
- W — EXISTING UNDERGROUND WATER LINE
- SD — EXISTING UNDERGROUND STORM DRAIN

SCALE

0 150 300 FEET

IT CORPORATION

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DELIVERY ORDER 108
MOFFETT FEDERAL AIRFIELD
MOFFETT FIELD, CALIFORNIA

FIGURE 2

MONITORING WELL LOCATIONS
LANDFILL SITE 2

TABLES

Table 1
Field Duplicate Summary

Analyte	Sample Result	Sample Duplicate Result	RPD (%)
W1-19 (W99-1)			
VOCs	All compounds not detected	All compounds not detected	Not calculable
Pesticides	All compounds not detected	All compounds not detected	Not calculable
PCBs	All compounds not detected	All compounds not detected	Not calculable
Total Metals	**Concentration, µg/L**		
Barium	75.1	74.8	0.4
Chromium	16.9	17.8	5.2
Nickel	9.7	10.5	7.9
Cobalt	12.5	11.9	4.8
All other total metals	All metals not detected or below reporting limit	All metals not detected or below reporting limit	Not calculable
Dissolved Metals	**Concentration, µg/L**		
Barium (D)	85.9	74.8	13.8
Arsenic (D)	10.5	8.4	22.2
Chromium (D)	19	17.1	10.5
Cobalt (D)	15.9	11.7	30.4
Nickel (D)	14	10.4	29.5
All other dissolved metals	All metals not detected or below reporting limit	All metals not detected or below reporting limit	Not calculable
Nitrate-Nitrite	ND	0.31	Not calculable
TOC	51	43	17
W2-15 (W99-2)			
SVOCs	All compounds not detected or below reporting limit	All compounds not detected or below reporting limit	Not calculable
Acetone	ND	2	Not calculable
1,2-Dichloroethane	0.6	0.6	0
All other VOCs	All compounds not detected	All compounds not detected	Not calculable
Pesticides	All compounds not detected	All compounds not detected	Not calculable
PCBs	All compounds not detected	All compounds not detected	Not calculable
Diesel/Motor Oil	ND	0.4	Not calculable

µg/L denotes micrograms per liter
ND denotes not detected
TOC denotes total organic compound

APPENDIX A

WATER LEVEL MEASUREMENTS AND GROUNDWATER MONITORING DATA FORMS

Table A-1
Water Level Measurements

Well I.D.	Depth to Water (feet)
Site 1	
W1-1	Well not found
W1-5	5.69
W1-6	2.61
W1-7	3.39
W1-8	5.76
W1-12	5.15
W1-14	5.86
W1-15	5.83
W1-16	7.14
W1-19	5.49
W1-20	8.19
W1-22	3.92
W1-23	3.99
W1-24	Not Installed
PZ1-18	5.57
PZ1-21	5.68
Site 2	
W2-3	4.67
W2-5	6.92
W2-6	7.27
W2-12	7.78
W2-13	7.08
W2-14	7.54
W2-15	4.40
W2-16	4.53

Depth to water measured from top of well casing.

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-5**
Date: 10/18/99

WELL MEASURMENTS

Depth to Water (DTW) 5.69' ft.
Purging Method: Low Flow Pumps 14.5 – 19.5 ' screen interval
Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1320	.10	6.87	~~48~~.53.3	18.48	176.9	.18	.40
1322	.20	6.86	53.7	18.44	183.5	.18	.40
1324	.30	6.86	52.6	18.30	187.2	.17	.40
1326	.40	6.85	52.5	18.26	192.2	.17	.50
1328	.50	6.85	52.0	18.25	194.7	.18	.50
1330	.60	6.85	52.1	18.23	198.3	.18	.50

SAMPLING INFORMATION

Sample Number	**W1-5**
Sample Date/Time	10/18/99 - 1340
Sampler ID	Km
Weather Conditions	sunny rainy overcast Temp: 77° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g) 8081/8082 (1x1 2g)

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-8**
Date: 10/18/99

WELL MEASURMENTS

Depth to Water (DTW) 5.76' ft.
Purging Method: Low Flow Pumps 13 – 18 ' screen interval
Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) X 1,000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1158	.10	7.11	54.0	18.50	33.2	0.78	0.2
1200	.20	7.10	53.7	18.49	35.6	0.75	0.1
1204	.40	7.10	53.4	18.50	37.7	0.72	0.2
1206	.50	7.10	53.4	18.47	38.5	0.70	0.1
1208	.60	7.09	53.6	18.45	36.4	0.70	0.2

SAMPLING INFORMATION

Sample Number	**W1-8**
Sample Date/Time	10/18/99 - 1215
Sampler ID	KMG
Weather Conditions	sunny rainy overcast Temp: 71° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), 8081/8082 (1-1 l g)

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-12**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 5.15' ft.
Purging Method: Low Flow Pumps 12.5 – 22.5 ' screen interval
Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) x 1000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
0820	.25	9.53	54.9	17.32	-287.2	.05	9.7
0823	.30	9.53	54.8	17.37	-292.0	.04	10.3
0826	.40	9.54	54.5	17.56	-299.6	.04	9.0
0829	.50	9.54	54.2	17.59	-306.6	.04	8.1
0832	.60	9.55	54.0	17.64	-310.2	.04	7.5
0835	.70	9.55	53.8	17.67	-315.8	.03	7.0
0838	.80	9.55	54.0	17.70	-316.3	.03	7.3

SAMPLING INFORMATION

Sample Number	**W1-12**
Sample Date/Time	10/19/99 - 0850
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 50 ° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), 8081/8082 (1-1lg)

Comments: FINE DARK PARTICLES IN WATER, CASING BADLY RUSTED

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-14**
Date: 10/18/99

WELL MEASURMENTS

Depth to Water (DTW) 5.86' ft.
Purging Method: Low Flow Pumps 4.1 – 14.1 ' screen interval
Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) × 1000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1605	.10	6.84	52.2	18.60	130.5	.10	19.3
1607	.20	6.84	51.9	18.52	132.1	.10	19.6
1610	.30	6.84	51.6	18.33	146.2	.07	17.0
1612	.40	6.83	54.0	18.25	133.1	.07	13.7
1614	.50	6.83	54.7	18.21	127.9	.07	9.1
1616	.60	6.83	54.5	18.21	127.5	.07	7.5
~~1607~~ 1618	.70	6.83	54.6	18.21	127.2	.07	7.0

SAMPLING INFORMATION

Sample Number	**W1-14**
Sample Date/Time	10-18-99 / 1625
Sampler ID	KM
Weather Conditions	(sunny) rainy overcast Temp: 80 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), ~~8080~~/8081/8082 (1x1 2 g)

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-15**
Date: 10/18/99

WELL MEASURMENTS

Depth to Water (DTW) 5.83 ft.
Purging Method: Low Flow Pumps 4.4 – 14.4 ' screen interval
Pump flow rate: ~250 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged (L)	pH	Cond. (~~us~~) (ms)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1150	0	–	–	–	–	–	–
1155	1.25	6.94	44.81	18.60	-118.7	1.22	6.0
1200	2.50	6.93	49.22	18.51	-107.9	1.06	6.3
1205	6.75	6.92	51.37	18.47	-101.0	0.93	2.2
1210	8.00	6.92	52.60	18.47	-96.0	0.79	1.7
1215	9.25	6.91	53.41	18.46	-92.4	0.67	1.7
1220	10.50	6.90	53.88	18.52	-90.7	0.35	2.7
1225	11.75	6.89	54.01	18.52	-89.3	0.22	1.9
1230	13.00	6.89	54.07	18.54	-88.8	0.19	0

SAMPLING INFORMATION

Sample Number	**W1-15**
Sample Date/Time	10/18/99 1235
Sampler ID	RC / JS
Weather Conditions	(sunny) rainy overcast Temp: 75 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g) Pest/PCB

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)** Well ID: **W1-16**

Project Number: **773189** Date: 10-18-99

Project Location: **Mt. View, CA**

WELL MEASURMENTS

Depth to Water (DTW) 7.14' ft.

Purging Method: Low Flow Pumps 5.4 – 15.4 ' screen interval

Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) x 1,000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1050	.10 g	6.87	53.9	20.22	181.9	0.68	129.0
1052	.50	6.86	53.1	20.16	187.9	0.65	141.2
1054	.60	6.86	53.3	20.06	190.1	0.62	154.1
1056	.70	6.85	53.1	19.95	~~19.95~~ 191.3	0.61	139.8
1058	.80	6.85	53.3	19.82	191.9	0.59	1.2
1100	.90	6.84	53.4	19.74	191.5	0.58	1.1

SAMPLING INFORMATION

Sample Number	**W1-16**
Sample Date/Time	10/18/99 – 1110
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 68° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- ~~total~~ & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g), 8081/8082 (1-1 l g)

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-19**
Date: 10/18/99

WELL MEASURMENTS

Depth to Water (DTW) 5.49 ft.
Purging Method: Low Flow Pumps 14 – 19' screen interval
Pump flow rate: ~250 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1410	Start	—	—	—	—	—	—
1415	1.25	7.02	56.81	19.52	66.8	0.02	2.9
1420	2.50	7.00	57.19	19.37	-35.3	0.00	3.4
1425	3.75	6.99	57.86	19.19	-54.6	0.45	1.9
1430	5.00	6.98	58.15	19.14	-56.8	0.89	0.0
1435	6.25	6.97	58.30	19.07	-57.7	0.72	0.0

SAMPLING INFORMATION

Sample Number	W1-19 W99-1 field Duplicate MS/MSD
Sample Date/Time	10/18/99 1445
Sampler ID	RC/JS
Weather Conditions	(sunny) rainy overcast Temp: 77 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g) Pest/PCBs

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-22**
Date: 10/18/99

WELL MEASURMENTS

Depth to Water (DTW) 3.92' ft.
Purging Method: Low Flow Pumps 0.5 – 6.5' screen interval
Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) x 1,000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1454	.10	6.78	20.3	22.46	-65.3	.68	7.2
1456	.20	6.77	20.0	22.49	-67.3	.68	5.2
1459	.25	6.77	20.3	22.47	-69.9	.66	5.6
1501	.30	6.77	19.9	22.49	-70.9	.67	6.4
1503	.40	6.77	19.9	22.48	-72.1	.69	5.5
1506	.50	6.77	19.9	22.49	-73.7	.67	4.7
1509	.60	6.77	20.0	22.46	-74.8	.67	4.3
1511	.70	6.77	20.3	22.47	-75.7	.68	4.3

SAMPLING INFORMATION

Sample Number	**W1-22**
Sample Date/Time	10-18-99 / 1520
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 78° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g) 8081/8082 (1x1 lg)

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site1 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W1-23**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 3.99 ft.
Purging Method: Low Flow Pumps 0.5 – 6.5' screen interval
Pump flow rate: _____ ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged (L)	pH	Cond. (us)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
0830	–	–	–	–		–	–
0835	1.25	6.56	51.51	20.29	-140.2	0.20	219.5
0840	2.50	6.52	48.16	20.63	-112.5	0.08	51.7
0845	3.75	6.51	47.33	20.72	-112.0	0.00	42.5
0850	5.00	6.54	44.27	20.72	-88.7	0.14	36.8
0855	6.25	6.53	43.60	20.69	-87.5	0.00	34.3
0900	7.50	6.54	42.68	20.68	-86.1	0.00	38.0

SAMPLING INFORMATION

Sample Number	**W1-23**
Sample Date/Time	10/19/99 0900
Sampler ID	RC/JG
Weather Conditions	sunny rainy overcast Temp: 60 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**EPA 8260** (3 VOA vials), **Metals- total & dissolved** (2 – 500ml plastic w/ HNO_3), **TOC** (1 –500ml p/g w/H_2SO_4), **NO_2/NO_3** (1-500 ml p/g) PCB/Pest

Comments: Greenish /stagnant looking water

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W2-5**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 6.92' ft.
Purging Method: Low Flow Pumps 7 – 17 ' screen interval
Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) x 1,000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
0958	.05	7.58	3.71	21.33	-44.6	2.53	2.6
1001	.10	7.50	3.78	21.31	-46.6	1.68	3.9
1004	.20	7.48	3.71	21.32	-47.6	1.58	4.3
1007	.30	7.45	3.69	21.28	-51.7	1.19	6.3
1010	.40	7.44	3.68	21.21	-55.0	1.01	0.5
1013	.50	7.42	3.71	21.19	-60.0	.79	0.4
1016	.60	7.41	3.71	21.14	-67.2	.63	0.2
1021	.75	7.40	3.72	21.07	-79.7	.50	2.1
1026	1.0	7.39	3.73	21.0	-90.9	.44	10.3
1031	1.25	7.39	3.77	20.94	-98.4	.42	21.5
1033	1.30	7.38	3.80	20.90	-116.8	.39	.20
1035	1.35	7.38	3.81	20.90	-116.1	.39	.20

SAMPLING INFORMATION

Sample Number	**W2-5**
Sample Date/Time	10-19-99 / 1050
Sampler ID	Km
Weather Conditions	sunny rainy overcast Temp: 62° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**VOCs, SVOC, Pest/PCB, TPH-Diesel and Motor Oil** 3 VOAs, 3- 1 Liter Amber glass jars

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W2-6**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 7.27 ft.
Purging Method: Low Flow Pumps 15 – 20 ' screen interval
Pump flow rate: ~250 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (~~µs~~) mS	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
0955	START	–	–	–	–	–	–
1000	1.25	7.16	30.89	20.01	27.0	2.54	4.3
1005	2.50	7.08	31.01	19.99	39.0	1.67	1.3
1010	3.75	7.06	31.14	19.91	47.3	0.88	0.0
1015	5.00	7.05	31.44	19.84	53.9	0.35	0.0
1020	6.25	7.04	31.52	19.83	57.0	0.14	0.0
1025	7.50	7.04	31.57	19.82	59.5	0.00	0.0

SAMPLING INFORMATION

Sample Number	**W2-6**
Sample Date/Time	10/19/99 1025
Sampler ID	
Weather Conditions	sunny rainy overcast Temp: 65 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**VOCs, SVOC, Pest/PCB, TPH-Diesel and Motor Oil** 3 VOAs, 3- 1 Liter Amber glass jars

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W2-12**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 7.78 ft.
Purging Method: Low Flow Pumps
Pump flow rate: ~~220~~ 180 ml/min

4.5 – 14.5 ' screen interval

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) x 1,000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1251	.10	7.42	8.05	20.7	66.0	.42	31.1
1256	.20	7.41	8.06	20.04	45.0	.37	30.9
1301	.30	7.41	8.04	20.04	37.5	.36	31.5
1306	.40	7.40	8.03	20.05	30.4	.36	31.8
1308	.45	7.40	8.02	20.07	32.0	.36	31.8
1310	.50	7.40	8.02	20.06	31.5	.36	31.8

SAMPLING INFORMATION

Sample Number	**W2-12**
Sample Date/Time	10/19/99 @ 1315
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 71° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**VOCs, SVOC, Pest/PCB, TPH-Diesel and Motor Oil** 3 VOAs, 3- 1 Liter Amber glass jars

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W2-14**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 7.54' ft.
Purging Method: Low Flow Pumps 6.5 – 16.5 ' screen interval
Pump flow rate: 220 ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged	pH	Cond. (us) x 1000	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1139	.05	7.15	19.04	19.77	48.7	.38	.30
1144	.20	7.16	19.40	19.75	39.7	.31	.30
1149	.35	7.16	19.60	19.67	38.1	.30	.50
1151	.45	7.16	19.60	19.68	36.7	.29	.30
1153	.55	7.16	19.60	19.67	35.9	.28	.40
1155	.65	7.16	19.60	19.68	35.3	.27	.30

SAMPLING INFORMATION

Sample Number	**W2-14**
Sample Date/Time	10/19/99 @ 1205
Sampler ID	KM
Weather Conditions	sunny rainy overcast Temp: 66° °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**VOCs, SVOC, Pest/PCB, TPH-Diesel and Motor Oil** 3 VOAs, 3- 1 Liter Amber glass jars

Comments:

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W2-15**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 4.40 ft.
Purging Method: Low Flow Pumps 7.5 – 17.5 ' screen interval
Pump flow rate: _____ ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged (L)	pH	Cond. (~~µs~~ m)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1205	START	–	–	–	–	–	–
1210	1.25	7.55	14.59	21.28	88.1	0.21	14.5
1215	2.50	7.44	15.81	21.18	89.0	0.00	15.3
1220	3.75	7.31	19.91	21.01	89.9	0.00	18.1
1225	5.00	7.25	22.55	20.94	90.0	0.00	5.4
1230	6.25	7.20	25.31	20.89	91.0	0.00	14.7
1235	7.50	7.16	27.01	20.85	93.2	0.00	9.6
1240	8.25	7.13	28.32	20.82	95.5	0.00	0.0
1245	9.50	7.11	29.02	20.76	97.2	0.00	1.8

SAMPLING INFORMATION

Sample Number	W2-15 Duplicate Collected W99-2
Sample Date/Time	10/19/99 ~~1245~~ (9) 1250
Sampler ID	RC/JD
Weather Conditions	(sunny) rainy overcast Temp: 70 °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**VOCs, SVOC, Pest/PCB, TPH-Diesel and Motor Oil** 3 VOAs, 3- 1 Liter Amber glass jars

Comments: _____

GROUNDWATER MONITORING DATA FORM

PROJECT INFORMATION

Project Name: **Moffett – LF Site 2 (Q4 1999)**
Project Number: **773189**
Project Location: **Mt. View, CA**

Well ID: **W2-16**
Date: 10/19/99

WELL MEASURMENTS

Depth to Water (DTW) 4.53 ft.
Purging Method: Low Flow Pumps 7.5 – 17.5 ' screen interval
Pump flow rate: _____ ml/min

2 inch ID *mult* =0.17 gal/ft.
4 inch ID *mult* =0.66 gal/ft.

PURGE DATA

Time	Volume Purged (L)	pH	Cond. (~~µs~~ m)	Temp. (C)	ORP (mV)	D. O. (ppm)	Turbidity (NTU)
1325	START	—	—	—	—	—	—
1330	1.25	7.07	34.79	21.33	120.2	0.00	22.7
1335	2.50	6.98	39.40	21.15	122.4	0.00	28.7
1340	3.75	6.96	40.28	21.06	121.8	0.00	35.7
1345	5.00	6.95	40.63	21.03	121.3	0.00	26.5

SAMPLING INFORMATION

Sample Number	**W2-16**
Sample Date/Time	10/19/99 1355
Sampler ID	
Weather Conditions	sunny rainy overcast Temp: _____ °F
Sample Collection Method	PUMP –Low Flow
Volume Collected/Analyses	**VOCs, SVOC, Pest/PCB, TPH-Diesel and Motor Oil** 3 VOAs, 3- 1 Liter Amber glass jars

Comments: _____

APPENDIX B
SUMMARY OF ANALYTICAL RESULTS

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-5	W1-8	W1-12	W1-14	W1-15	W1-16
Date Collected	10/18/1999	10/18/1999	10/18/1999	10/18/1999	10/18/1999	10/18/1999
Analysis						
EPA 8260A	Concentration, ug/L					
Acetone	8.7U	8.7U	2.4U	2.4U	8.7U	8.7U
Acrylonitrile	2.9U	2.9U	2U	2U	2.9U	2.9U
Benzene	2U	2U	2U	2U	2U	2U
Bromobenzene	2U	2U	2U	2U	2U	2U
Bromochloromethane	2U	2U	2U	2U	2U	2U
Bromodichloromethane	2U	2U	2U	2U	2U	2U
Bromoform	2U	2U	2U	2U	2U	2U
Bromomethane	2U	2U	2U	2U	2U	2U
2-Butanone	6.5U	6.5U	2U	2U	6.5U	6.5U
Carbon disulfide	2U	2U	1J	2U	4.5	2U
Carbon tetrachloride	2U	2U	2U	2U	2U	2U
Chlorobenzene	2U	2U	2U	2U	2U	2U
Chloroethane	2U	2U	2U	2U	2U	2U
Chloroform	2U	2U	2U	2U	2U	2U
Chloromethane	2U	2U	2U	2U	2U	2U
1,2-Dibromo-3-chloropropane	2U	2U	2U	2U	2U	2U
1,2-Dibromoethane	2U	2U	2U	2U	2U	2U
Dibromomethane	2U	2U	2U	2U	2U	2U
trans-1,4-Dichlorobutene	2U	2U	2U	2U	2U	2U
1,2-Dichlorobenzene	2U	2U	2U	2U	2U	2U
1,4-Dichlorobenzene	2U	2U	2U	2U	2U	2U
1,1-Dichloroethane	2U	2U	2U	2U	2U	2U
1,2-Dichloroethane	2U	2U	2U	2U	2U	2U
1,1-Dichloroethene	2U	2U	2U	2U	2U	2U
cis-1,2-Dichloroethene	2U	2U	2U	2U	2U	2U
trans-1,2-Dichloroethene	2U	2U	2U	2U	2U	2U
1,2-Dichloropropane	2U	2U	2U	2U	2U	2U
cis-1,3-Dichloropropene	2U	2U	2U	2U	2U	2U
trans-1,3-Dichloropropene	2U	2U	2U	2U	2U	2U
Ethylbenzene	2U	2U	2U	2U	0.6J	2U
2-Hexanone	2U	2U	2U	2U	2U	2U
Methylene chloride	2U	2U	2U	2U	2U	2U
4-Methyl-2-pentanone	2U	2U	2U	2U	2U	2U
Styrene	2U	2U	2U	2U	2U	2U
1,1,1,2-Tetrachloroethane	2U	2U	2U	2U	2U	2U
1,1,2,2-Tetrachloroethane	2U	2U	2U	2U	2U	2U
Tetrachloroethene	2U	2U	2U	2U	2U	2U
Toluene	1J	2U	0.6J	2U	1J	2U
1,1,1-Trichloroethane	2U	2U	2U	2U	2U	2U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-5	W1-8	W1-12	W1-14	W1-15	W1-16
Date Collected	10/18/1999	10/18/1999	10/18/1999	10/18/1999	10/18/1999	10/18/1999
Analysis						
EPA 8260A *cont.*						
1,1,2-Trichloroethane	2U	2U	2U	2U	2U	2U
Trichloroethene	2U	2U	2U	2U	2U	2U
Trichlorofluoromethane	2U	2U	2U	2U	2U	2U
Vinyl chloride	2U	2U	2U	2U	2U	2U
1,2,3-Trichloropropane	2U	2U	2U	2U	2U	2U
Vinyl Acetate	3.6U	3.6U	2.3U	2.3U	3.6U	3.6U
m/p-Xylene	**0.8J**	**0.6J**	2U	2U	**3**	2U
o-Xylene	2U	2U	2U	2U	**0.7J**	2U
EPA 8081			Concentration, ug/L			
Aldrin	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
alpha-BHC	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
beta-BHC	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
delta-BHC	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
gamma-BHC (Lindane)	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
alpha Chlordane	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
gamma Chlordane	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
4,4'-DDD	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
4,4'-DDE	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
4,4'-DDT	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Dieldrin	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Endosulfan I	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
Endosulfan II	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Endosulfan sulfate	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Endrin	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Endrin aldehyde	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Endrin ketone	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Heptachlor	0.05U	0.05U	0.05U	0.05UJ	0.05U	0.05U
Heptachlor epoxide	0.1U	0.1U	0.1U	0.1UJ	0.1U	0.1U
Methoxychlor	0.5U	0.5U	0.5U	0.5UJ	0.5U	0.5U
Toxaphene	2U	2U	2U	2UJ	2U	2U
EPA 8082			Concentration, ug/L			
Aroclor-1016	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1221	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1232	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1242	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1248	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1254	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1260	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-19	W99-1	W1-22	W1-23
Date Collected	10/18/1999	10/18/1999	10/18/1999	10/18/1999
Analysis		field duplicate [1]		
EPA 8260A			Concentration ug/L	
Acetone	8.7U	8.7U	8.7U	2.4U
Acrylonitrile	2.9U	2.9U	2.9U	2U
Benzene	2U	2U	2U	2U
Bromobenzene	2U	2U	2U	2U
Bromochloromethane	2U	2U	2U	2U
Bromodichloromethane	2U	2U	2U	2U
Bromoform	2U	2U	2U	2U
Bromomethane	2U	2U	2U	2U
2-Butanone	6.5U	6.5U	6.5U	2U
Carbon disulfide	2U	2U	2U	1J
Carbon tetrachloride	2U	2U	2U	2U
Chlorobenzene	2U	2U	2U	2U
Chloroethane	2U	2U	2U	2U
Chloroform	2U	2U	2U	2U
Chloromethane	2U	2U	2U	2U
1,2-Dibromo-3-chloropropane	2U	2U	2U	2U
1,2-Dibromoethane	2U	2U	2U	2U
Dibromomethane	2U	2U	2U	2U
trans-1,4-Dichlorobutene	2U	2U	2U	2U
1,2-Dichlorobenzene	2U	2U	2U	2U
1,4-Dichlorobenzene	2U	2U	2U	2U
1,1-Dichloroethane	2U	2U	2U	2U
1,2-Dichloroethane	2U	2U	2U	2U
1,1-Dichloroethene	2U	2U	2U	2U
cis-1,2-Dichloroethene	2U	2U	2U	2U
trans-1,2-Dichloroethene	2U	2U	2U	2U
1,2-Dichloropropane	2U	2U	2U	2U
cis-1,3-Dichloropropene	2U	2U	2U	2U
trans-1,3-Dichloropropene	2U	2U	2U	2U
Ethylbenzene	2U	2U	2U	2U
2-Hexanone	2U	2U	2U	2U
Methylene chloride	2U	2U	2U	2U
4-Methyl-2-pentanone	2U	2U	2U	2U
Styrene	2U	2U	2U	2U
1,1,1,2-Tetrachloroethane	2U	2U	2U	2U
1,1,2,2-Tetrachloroethane	2U	2U	2U	2U
Tetrachloroethene	2U	2U	2U	2U
Toluene	2U	2U	2U	2U
1,1,1-Trichloroethane	2U	2U	2U	2U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-5	W1-8	W1-12	W1-14	W1-15	W1-16
Date Collected	10/18/1999	10/18/1999	10/18/1999	10/18/1999	10/18/1999	10/18/1999
Analysis						
EPA 6010B (total)	Concentration, ug/L					
Antimony	250U	250U	50U	50U	250U	250U
Arsenic	**16.5J**	**12.8J**	50U	**4.5J**	250U	**9.1J**
Barium	**460J**	**127J**	**4.6J**	**125**	**171J**	**2,140**
Beryllium	10U	10U	2U	2U	10U	10U
Cadmium	10U	10U	2U	2U	10U	10U
Chromium	**14.5J**	**13.1J**	**5.9J**	**7.3J**	**13.9J**	**23.5J**
Cobalt	**5.1J**	50U	10U	**6.8J**	**4.8J**	50U
Copper	50U	**11.7J**	10U	10U	**8.0J**	**4.2J**
Lead	25U	25U	5U	5U	25U	25U
Nickel	**3.6J**	**3.9J**	40U	**5.5J**	**3.9J**	**5.7J**
Selenium	100U	100U	20U	20U	100U	100U
Silver	25U	25U	5U	5U	25U	25U
Thallium	50U	50U	**7.5J**	**6.6J**	50U	50U
Vanadium	**2.0J**	**2.5J**	10U	**1.4J**	**2.3J**	**19J**
Zinc	100U	100U	20U	20U	100U	100U
EPA 6010B (dissolved)	Concentration, ug/L					
Antimony	250U	250U	50U	50U	250U	250U
Arsenic	250U	**10.8J**	50U	**4.6J**	**11.2J**	250U
Barium	**460J**	**113J**	**4.5J**	**124**	**171J**	**1,480**
Beryllium	10U	10U	2U	2U	10U	10U
Cadmium	10U	10U	2U	2U	10U	10U
Chromium	**14.2J**	**12.9J**	**6.0J**	**7.8J**	**15.4J**	**19.8J**
Cobalt	**4.3J**	**1.8J**	10U	**6.8J**	**3.3J**	**5.2J**
Copper	50U	**5.3J**	10U	**6.8J**	50U	**14.6J**
Lead	25U	25U	5U	5U	25U	25U
Nickel	**14J**	**3.2J**	20U	**9.9J**	200U	**11.8J**
Selenium	100U	100U	20U	20U	100U	100U
Silver	25U	25U	5U	5U	25U	**12J**
Thallium	50U	50U	**8.4J**	**3.6J**	50U	50U
Vanadium	50U	50U	10U	10U	10U	50U
Zinc	100U	100U	20U	20U	100U	100U
EPA 353.3	Concentration, ug/L					
Nitrate-Nitrite as N	**0.33**	**2.67**	**0.2**	**0.27**	**0.422**	0.02U
EPA 415.1	Concentration, ug/L					
TOC	**73**	**42**	**30**	**75**	**50**	**121**

1. W99-1 is a field duplicate of sample W1-19

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the analyte was positively identified but the associated numerical value is below the reporting limit (RL).

UJ qualifier indicates that the analyte was not detected. However, the reported quantitation limit is approximate.

B qualifier indicates that the analyte was also detected in the associated blank

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-19	W99-1	W1-22	W1-23
Date Collected	10/18/1999	10/18/1999	10/18/1999	10/18/1999
Analysis		field duplicate [1]		
EPA 8260A				
1,1,2-Trichloroethane	2U	2U	2U	2U
Trichloroethene	2U	2U	2U	2U
Trichlorofluoromethane	2U	2U	2U	2U
Vinyl chloride	2U	2U	2U	2U
1,2,3-Trichloropropane	2U	2U	2U	2U
Vinyl Acetate	3.6U	3.6U	3.6U	2.3U
m/p-Xylene	2U	2U	2U	2U
o-Xylene	2U	2U	2U	2U
EPA 8081			Concentration ug/L	
Aldrin	0.05U	0.05U	0.05U	0.05U
alpha-BHC	0.05U	0.05U	0.05U	0.05U
beta-BHC	0.05U	0.05U	0.05U	0.05U
delta-BHC	0.05U	0.05U	0.05U	0.05U
gamma-BHC (Lindane)	0.05U	0.05U	0.05U	0.05U
alpha Chlordane	0.05U	0.05U	0.05U	0.05U
gamma Chlordane	0.05U	0.05U	0.05U	0.05U
4,4'-DDD	0.1U	0.1U	0.1U	0.1U
4,4'-DDE	0.1U	0.1U	0.1U	0.1U
4,4'-DDT	0.1U	0.1U	0.1U	0.1U
Dieldrin	0.1U	0.1U	0.1U	0.1U
Endosulfan I	0.05U	0.05U	0.05U	0.05U
Endosulfan II	0.1U	0.1U	0.1U	0.1U
Endosulfan sulfate	0.1U	0.1U	0.1U	0.1U
Endrin	0.1U	0.1U	0.1U	0.1U
Endrin aldehyde	0.1U	0.1U	0.1U	0.1U
Endrin ketone	0.1U	0.1U	0.1U	0.1U
Heptachlor	0.05U	0.05U	0.05U	0.05U
Heptachlor epoxide	0.1U	0.1U	0.1U	0.1U
Methoxychlor	0.5U	0.5U	0.5U	0.5U
Toxaphene	2U	2U	2U	2U
EPA 8082			Concentration ug/L	
Aroclor-1016	0.5U	0.5U	0.5U	0.5U
Aroclor-1221	0.5U	0.5U	0.5U	0.5U
Aroclor-1232	0.5U	0.5U	0.5U	0.5U
Aroclor-1242	0.5U	0.5U	0.5U	0.5U
Aroclor-1248	0.5U	0.5U	0.5U	0.5U
Aroclor-1254	0.5U	0.5U	0.5U	0.5U
Aroclor-1260	0.5U	0.5U	0.5U	0.5U

Table B-1: Summary of Analytical Results for Moffett Site 1

Sample ID	W1-19	W99-1	W1-22	W1-23
Date Collected	10/18/1999	10/18/1999	10/18/1999	10/18/1999
Analysis		field duplicate		
EPA 6010B (total)			Concentration ug/L	
Antimony	250U	250U	100U	50U
Arsenic	250U	250U	**8.7J**	**10.6J**
Barium	**75.1J**	**74.8J**	**360**	**92.2J**
Beryllium	10U	10U	4U	2U
Cadmium	10U	10U	4U	2U
Chromium	**16.9J**	**17.8J**	**17.4J**	**45.3**
Cobalt	**12.5J**	**11.9J**	**11.2J**	**22.2**
Copper	50U	50U	**8.5J**	10U
Lead	25U	25U	10U	5U
Nickel	**9.7J**	**10.5J**	**25.7J**	**226**
Selenium	100U	100U	40U	**19.9J**
Silver	25U	25U	10U	5U
Thallium	50U	50U	20U	10U
Vanadium	50U	50U	10U	50U
Zinc	100U	100U	40U	20U
EPA 6010B (dissolved)			Concentration ug/L	
Antimony	250U	250U	100U	50U
Arsenic	**10.5J**	**8.4J**	**8.8J**	**9.9J**
Barium	**85.9J**	**74.8J**	**363**	**84.4J**
Beryllium	10U	10U	4U	2U
Cadmium	10U	10U	4U	2U
Chromium	**19J**	**17.1J**	**14.9J**	**38.4**
Cobalt	**15.9J**	**11.7J**	**11.2J**	**21.6**
Copper	20U	50U	20U	10U
Lead	**12.5J**	25U	10U	5U
Nickel	**14J**	**10.4J**	**25.5J**	**226**
Selenium	100U	100U	40U	**21.9**
Silver	25U	25U	10U	5U
Thallium	50U	50U	20U	10U
Vanadium	50UJ	50UJ	10U	10U
Zinc	100U	100U	40U	20U
EPA 353.3			Concentration ug/L	
Nitrate-Nitrite as N	0.02 U	**0.31**	**0.39**	**0.29**
EPA 415.1			Concentration ug/L	
TOC	**51**	**43**	**110**	**159**

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the analyte was positively identified but the associated numerical value is below the reporting limit (RL).

UJ qualifier indicates that the analyte was not detected. However, the reported quantitation limit is approximate.

B qualifier indicates that the analyte was also detected in the associated blank

Table B-2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2
Date Collected	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999
Analysis							field duplicate[1]
CLP SVOA	Concentration, ug/L						
Acenaphthylene	10U	10U	10U	10U	10U	10U	10U
Acenaphthene	10U	10U	10U	10U	10U	10U	10U
Anthracene	10U	10U	10U	10U	10U	10U	10U
Benzo(a)anthracene	10U	10U	10U	10U	10U	10U	10U
Benzo(a)pyrene	10U	10U	10U	10U	10U	10U	10U
Benzo(b)fluoranthene	10U	10U	10U	10U	10U	10U	10U
Benzo(k)fluoranthene	10U	10U	10U	10U	10U	10U	10U
2,2'-Oxybis(1-chloropropane)	10U	10U	10U	10U	10U	10U	10U
bis(2-Ethylhexyl)phthalate	4U	**3J**	**5**	**6**	4U	**4J**	4U
4-Bromophenyl-phenylether	10U	10U	10U	10U	10U	10U	10U
Butylbenzylphthalate	10U	10U	10U	10U	10U	10U	10U
Carbazole	10U	10U	10U	10U	10U	10U	10U
4-Chloro-3-Methylphenol	10U	10U	10U	10U	10U	10U	10U
4-Chloroaniline	10U	10U	10U	10U	10U	10U	10U
2-Chloronaphthalene	10U	10U	10U	10U	10U	10U	10U
2-Chlorophenol	10U	10U	10U	10U	10U	10U	10U
4-Chlorophenyl-phenylether	10U	10U	10U	10U	10U	10U	10U
Chrysene	10U	10U	10U	10U	10U	10U	10U
Di-n-butylphthalate	10U	10U	10U	10U	10U	10U	10U
Di-n-octylphthalate	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ
Dibenz(a,h)anthracene	10U	10U	10U	10U	10U	10U	10U
Dibenzofuran	10U	10U	10U	10U	10U	10U	10U
1,2-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U
1,3-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U
1,4-Dichlorobenzene	5U	5U	5U	5U	5U	5U	5U
3,3'-Dichlorobenzidine	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ
2,4-Dichlorophenol	10U	10U	10U	10U	10U	10U	10U
Diethylphthalate	10U	10U	10U	10U	10U	10U	10U
Dimethylphthalate	10U	10U	10U	10U	10U	10U	10U
2,4-Dimethylphenol	10U	10U	10U	10U	10U	10U	10U
4,6-Dinitro-2-methylphenol	25U	25U	25U	25U	25U	25U	25U
2,4-Dinitrophenol	25U	25U	25U	25U	25U	25U	25U
2,4-Dinitrotoluene	10U	10U	10U	10U	10U	10U	10U
2,6-Dinitrotoluene	10U	10U	10U	10U	10U	10U	10U
Fluoranthene	10U	10U	10U	10U	10U	10U	10U
Fluorene	10U	10U	10U	10U	10U	10U	10U
Hexachlorobenzene	10U	10U	10U	10U	10U	10U	10U
Hexachlorobutadiene	10U	10U	10U	10U	10U	10U	10U
Hexachlorocyclopentadiene	10U	10U	10U	10U	10U	10U	10U
Hexachloroethane	10U	10U	10U	10U	10U	10U	10U
Indeno(1,2,3-cd)pyrene	10U	10U	10U	10U	10U	10U	10U

Table B-2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2
Date Collected	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999
Analysis							field duplicate[1]
CLP SVOA *cont.*				Concentration, ug/L			
Isophorone	10U	10U	10U	10U	10U	10U	10U
2-Methylnaphthalene	10U	10U	10U	10U	10U	10U	10U
2-Methylphenol	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ
4-Methylphenol	10U	10U	10U	10U	10U	10U	10U
Naphthalene	10U	10U	10U	10U	10U	10U	10U
2-Nitroaniline	25U	25U	25U	25U	25U	25U	25U
3-Nitroanaline	25U	25U	25U	25U	25U	25U	25U
4-Nitroanaline	25U	25U	25U	25U	25U	25U	25U
Nitrobenzene	10U	10U	10U	10U	10U	10U	10U
2-Nitrophenol	10U	10U	10U	10U	10U	10U	10U
4-Nitrophenol	25U	25U	25U	25U	25U	25U	25U
N-Nitroso-di-n-propylamine	10U	10U	10U	10U	10U	10U	10U
N-Nitrosodiphenylamine	10U	10U	10U	10U	10U	10U	10U
Pentachlorophenol	25U	25U	25U	25U	25U	25U	25U
Phenanthrene	10U	10U	10U	10U	10U	10U	10U
Phenol	10U	10U	10U	10U	10U	10U	10U
Pyrene	10U	10U	10U	10U	10U	10U	10U
1,2,4-Trichlorobenzene	10U	10U	10U	10U	10U	10U	10U
2,4,5-Trichlorophenol	25U	25U	25U	25U	25U	25U	25U
2,4,6-Trichlorophenol	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ
CLP VOA				Concentration, ug/L			
Acetone	2U	2U	2U	2U	2U	**5B**	**2B**
Benzene	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Bromodichloromethane	2U	2U	2U	2U	2U	2U	2U
Bromoform	2U	2U	2U	2U	2U	2U	2U
Bromomethane	2U	2U	2U	2U	2U	2U	2U
2-Butanone	2U	2U	**0.6J**	**0.6J**	2U	**1J**	10U
Carbon disulfide	2U	2U	2U	2U	2U	10U	10U
Carbon tetrachloride	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Chlorobenzene	2U	2U	2U	2U	2U	2U	2U
Dibromochloromethane	2U	2U	2U	2U	2U	2U	2U
Chloroethane	2U	2U	2U	2U	2U	2U	2U
Chloroform	2U	2U	2U	2U	2U	2U	2U
Chloromethane	2U	2U	2U	2U	2U	2U	2U
1,1-Dichloroethane	2U	2U	2U	2U	2U	2U	2U
1,2-Dichloroethane	0.5U	0.5U	0.5U	0.5U	**0.6**	3U	**0.6**
1,1-Dichloroethene	2U	2U	2U	2U	2U	2U	2U
1,2-Dichloroethene (total)	2U	2U	2U	2U	2U	2U	2U
1,2-Dichloropropane	2U	2U	2U	2U	2U	2U	2U
cis-1,3-Dichloropropene	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U

Table B-2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2
Date Collected	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999
Analysis							field duplicate[1]
CLP VOA *cont*	Concentration, ug/L						
trans-1,3-Dichloropropene	0.5U	0.5U	0.5U	0.5U	0.5U	3U	3U
Ethylbenzene	2U	2U	2U	2U	2U	2U	2U
2-Hexanone	2U	2U	2U	2U	2U	2U	2U
Methylene chloride	2U	2U	2U	2U	2U	2U	2U
4-Methyl-2-pentanone	2U	2U	2U	2U	2U	2U	2U
Styrene	2U	2U	2U	2U	2U	2U	2U
1,1,2,2-Tetrachloroethane	2U	2U	2U	2U	2U	2U	2U
Tetrachloroethene	2U	2U	2U	2U	2U	2U	2U
Toluene	2U	2U	2U	2U	2U	2U	2U
1,1,1-Trichloroethane	2U	2U	2U	2U	2U	2U	2U
1,1,2-Trichloroethane	2U	2U	2U	2U	2U	2U	2U
Trichloroethene	2U	2U	2U	2U	2U	2U	2U
Vinyl chloride	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Xylene (total)	2U	2U	2U	2U	2U	2U	2U
CLP Pesticides	Concentration, ug/L						
alpha-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
beta-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
delta-BHC	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
gamma-BHC (Lindane)	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Heptachlor	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Aldrin	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Heptachlor epoxide	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Endosulfan I	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Dieldrin	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
4,4'-DDE	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endosulfan II	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
4,4'-DDD	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endosulfan sulfate	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
4,4'-DDT	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Methoxychlor	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin ketone	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
Endrin aldehyde	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Toxaphene	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
alpha Chlordane	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
gamma Chlordane	2U	2U	2U	2U	2U	2U	2U

Table B-2: Summary of Analytical Results for Moffett Site 2

Sample ID	W2-5	W2-6	W2-12	W2-14	W2-15	W2-16	W99-2
Date Collected	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999	10/19/1999
Analysis							field duplicate[1]
CLP PCB				Concentration, ug/L			
Aroclor-1016	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1221	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1232	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1242	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1248	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1254	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Aroclor-1260	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
TPH				Concentration, ug/L			
Diesel	0.05U	**0.07**	0.05U	0.05U	0.05U	0.05U	**0.04J**
Motor Oil	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U

1. Sample W99-2 is a field duplicate of sample W2-15.

U qualifier indicates that the analyte was not detected at the specified detection limit

J qualifier indicates that the analyte was positively identified but the associated numerical value is below the reporting limit (RL).

NA indicates that the sample was not analyzed for this parameter due to a labortory error

B qualifier indicates that the analyte was also detected in the associated blank