



76 Broadway
Sacramento, California 95818

RECEIVED

9:59 am, Nov 09, 2010

Alameda County
Environmental Health

November 4, 2010

Ms. Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: 76 Service Station No. 5367
500 Bancroft Avenue
San Leandro, California

Site Closure Summary

Dear Ms. Jakub:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact me at (916) 558-7612.

Sincerely,

A handwritten signature in black ink that reads "Bill Borgh". The signature is written in a cursive, slightly slanted style.

Bill Borgh
Site Manager – Risk Management and Remediation

Attachment

November 4, 2010

Ms. Barbara Jakub
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

RE: SITE CLOSURE SUMMARY

76 Service Station No. 5367
500 Bancroft Avenue
San Leandro, California
Delta Project No.: C105367817
ACEH Case No. RO# 0499



Dear Ms. Jakub

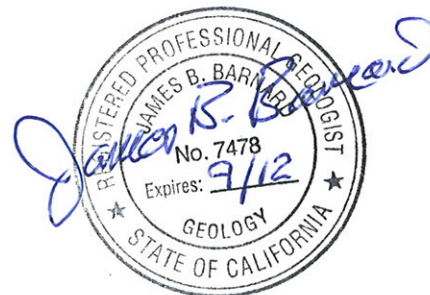
On behalf of ConocoPhillips (COP), Delta Consultants (Delta) has prepared this Site Closure Summary (attached) for above referenced site. Due to declining or non-detect concentrations, COP and Delta request case closure for this site.

If there are any questions regarding this submittal, please call James Barnard at (916) 503-1279.

Sincerely,
Delta Consultants

A handwritten signature in blue ink that reads "James B. Barnard".

James B. Barnard, P.G.
California Registered Professional Geologist No. 7478



Cc: Mr. Bill Borgh – ConocoPhillips (electronic copy only)

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: [November 4, 2010](#)

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway, Suite 250
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 639-1287
Responsible Staff Person: Barbara Jakub	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: ConocoPhillips Service Station No. 5367		
Site Facility Address: 500 Bancroft Ave, San Leandro, CA		
RB Case No.: 01-1604	Local Case No.:	LOP Case No.: RO #0499
URF Filing Date:	Geotracker ID: T0600101479	APN:
Responsible Parties	Addresses	Phone Numbers
Bill Borgh	76 Broadway, Sacramento 95818	916-558-7612

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	unknown	Gasoline	Removed	1987
2	12,000	Gasoline	In Place	Active
3	12,000	Gasoline	In Place	Active
4	12,000	Gasoline	In Place	Active
Product Piping			Replaced	1987
Product Piping			Replaced	1998

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Hydrocarbon Release, cause unknown		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 10	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 16 ft below TOC	Lowest Depth: 38 ft below TOC	Flow Direction: Predominantly W, SW, NW
Most Sensitive Current Use: Potential drinking water source.		

<p>Summary of Production Wells in Vicinity:</p> <p>A well search performed in 1990 by Applied GeoSystems identified at least 15 wells within ½ mile of the site. Five of the wells were down-gradient (southwest) and within approximately 600 feet of the site. One of these wells was used for irrigation, one was abandoned, and no records pertaining to the remaining three wells were available. No municipal wells were identified within ½ mile of the site. The nearest water-supply wells were located approximately 400 feet southwest of the site.</p> <p>A sensitive receptor survey was performed by Delta in August 2006. The survey consisted of a review of Department of Water Resources (DWR) files to evaluate the presence of wells within 1 mile of the site. A list of property owners within 1,000 feet of the site was also generated to evaluate if any of the properties have potential receptors of the hydrocarbon impact from the project site.</p> <p>A Public Health Assessment Questionnaire presenting specific queries regarding the presence of sensitive receptors was mailed to each of the identified property owners. A total of 341 questionnaires were mailed in April 2006, and 114 responses were received. Based on the data from the responding parties, sixteen wells were identified within 1,000 feet of the site. Seven of the properties had sumps used for irrigation, and basements were present on twenty seven of the properties.</p>	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: San Leandro Creek ~1900 ft SE
<p>Off-Site Beneficial Use Impacts (Addresses/Locations):</p> <p>Fundamental Gospel Baptist Church – 700 ft NW – 618 Victoria Ct, San Leandro</p> <p>All Saints Episcopal Church – 1250 ft SW - 911 Dowling Blvd, San Leandro</p> <p>Roosevelt Elementary School – 1450 ft W - 951 Dowling Blvd, San Leandro</p> <p>Washington Elementary School – 1650 ft SW - 250 Dutton Ave, San Leandro</p>	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health, GeoTracker and Livelink

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Unknown	Disposed – Unknown Location	1987

Piping	Unknown	Disposed – Unknown Location	1987
Free Product	----	----	----
Soil	250 cu yds	Disposed – Unknown Location	1987
Soil	30 cu yds	Disposed – Unknown Location	1998
Groundwater	----	----	----

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	3,692 ¹	ND<1.0 ^{3*}	61,000 ¹	6600 ²
TPH (Diesel)	NA	NA	NA	NA
TPH (Motor Oil)	NA	NA	NA	NA
Oil and Grease	NA	NA	NA	NA
Benzene	22.1 ¹	ND<0.0050 ^{3*}	1,060 ¹	6.9 ²
Toluene	129 ¹	ND<0.0050 ^{3*}	3,380 ¹	ND<5.0 ²
Ethylbenzene	65 ¹	ND<0.0050 ^{3*}	1,520 ¹	510 ²
Xylenes	394 ¹	ND<0.0050 ^{3*}	8,720 ¹	38 ²
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	^	^^	^^^	^^^
MTBE	*	**	***	****
Other (8240/8270)	NA	NA	NA	NA

NA = not analyzed

^ NA ppm Cd; NA ppm Cr; NA ppm Pb; NA ppm Ni; NA ppm Zn

^^ NA ppm Cd; NA ppm Cr; NA ppm Pb; NA ppm Ni; NA ppm Zn

^^^ NA ppb Cd; NA ppb Cr; NA ppb Pb; NA ppb Ni; NA ppb Zn

^^^ NA ppb Cd; NA ppb Cr; NA ppb Pb; NA ppb Ni; NA ppb Zn

* NA ppm MTBE; NA ppm TBA.; NA ppm TAME.; NA ppm ETBE; NA ppm DIPE; NA ppm EtOH ; NA ppm EDB; and NA ppm EDC

** ND<0.025³ ppm MTBE; NA ppm TBA.; NA ppm TAME.; NA ppm ETBE; NA ppm DIPE; NA ppm EtOH ; NA ppm EDB; and NA ppm EDC

*** NA ppb MTBE; NA ppb TBA.; NA ppb TAME.; NA ppb ETBE; NA ppb DIPE; NA ppb EtOH ; NA ppb EDB; and NA ppb EDC

**** NA ppb MTBE; NA ppb TBA.; NA ppb TAME.; NA ppb ETBE; NA ppb DIPE; NA ppb EtOH ; ND<5.0² ppb EDB; and ND<5.0² ppb EDC

NOTES:

1. Max concentration during MW-1 installation (AGS 1988).

2. Max concentration from 3Q10 M&S event (TRC 2010).

3. Max concentration from soil samples collected during product piping replacement, *max depth of 5 ft bgs (PEG 1998).

Site History and Description of Corrective Actions:

The site is located on the northeast corner of the intersection of Bancroft Avenue and Dowling Boulevard and is an active 76 service station. Three 12,000-gallon underground storage tanks (USTs) and two dispenser islands are present at the site.

In 1987, the USTs and associated piping were replaced. During the work, approximately 250 cubic yards of impacted soil was excavated and removed from the site. A limited environmental investigation was performed by Applied GeoSystems in 1987 and consisted of advancing one boring and the installation of groundwater monitoring well MW-1 at the site. Free product (approximately ¼ inch) was present on the groundwater beneath the site. Approximately 120 pounds of free product was removed by hand bailing.

In September and October 1988, three additional monitoring wells (MW-2 through MW-4) were installed at the site by Applied GeoSystems. Based on the data from the investigation, the extent of impacted soil appeared limited to an area west and south of the tank pit between 30 and 36 feet below ground surface (bgs).

In February 1990, an additional on-site monitoring well (MW-5) and three off-site monitoring wells (MW-6 through MW-8) were installed by Applied GeoSystems. The data from this and the previous investigations indicated that impacted groundwater was present both beneath the site and off-site to the southwest. The extent of impacted soil and groundwater appeared to be assessed to the east of the USTs and to the west of the site.

A well search performed in 1990 by Applied GeoSystems identified at least 15 wells within ½ mile of the site. Five of the wells were down-gradient (southwest) and within approximately 600 feet of the site. One of these wells was used for irrigation, one was abandoned, and no records pertaining to the remaining three wells were available. No municipal wells were identified within ½ mile of the site. The nearest water-supply wells were located approximately 400 feet southwest of the site.

Between mid-1994 and mid-1995, two additional monitoring wells (MW-9 and MW-10) were installed to the west and south of the site, respectively.

Between March 1996 and March 1997, soil vapor extraction (SVE) and groundwater extraction (GWE) remediation systems operated at the site. During this time, approximately 637,151 gallons of impacted groundwater were removed by the GWE system. An estimated 180 pounds and 108 pounds of total petroleum hydrocarbons as gasoline (TPHg) were removed by the SVE and GWE systems, respectively.

In November 1998, the product piping was replaced and approximately 30 cubic yards of soil was removed from the site. Spill containment sumps and electronic leak detection were also installed.

A sensitive receptor survey was performed by Delta in August 2006. The survey consisted of a review of Department of Water Resources (DWR) files to evaluate the presence of wells within 1 mile of the site. A list of property owners within 1,000 feet of the site was also generated to evaluate if any of the properties have potential receptors of the hydrocarbon impact from the project site.

A Public Health Assessment Questionnaire presenting specific queries regarding the presence of sensitive receptors was mailed to each of the identified property owners. A total of 341 questionnaires were mailed in April 2006, and 114 responses were received. Based on the data from the responding parties, sixteen wells were identified within 1,000 feet of the site. Seven of the properties had sumps used for irrigation, and basements were present on twenty seven of the properties.

Delta also reviewed the DWR files to prepare a list of parcel numbers, property owner's names, and property addresses of potential receptors within a 1-mile radius of the site. Questionnaires were mailed to 43 addresses in June 2006, but only two responses were received. The two respondents had a well on their property; however, no sumps or basements were present.

Based on the U.S. Geological Survey (USGS) topographic map for the site area (San Leandro quadrangle, 1967), the nearest surface water body is San Leandro Creek located approximately 1,900 feet southeast of the site.

On April 23, 2007, an irrigation well was purged and sampled by Delta. The well was sampled at the request of a nearby resident, located at 589 Broadmoor Boulevard in San Leandro. Groundwater samples were collected and analyzed from the well for Total Purgeable Petroleum Hydrocarbons (TPPH); benzene, toluene, ethyl-benzene, and total xylenes (BTEX); methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), TBA, 1,2-dichloroethane (1,2-DCA), ethylene di-bromide (EDB), and ethanol - (8 oxygenates) by Environmental Protection Agency (EPA) Method 8260. All constituents tested were below the laboratory's indicated reporting limits.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements:		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? Yes No		Date Recorded:
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 10
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances: <ul style="list-style-type: none">No soil samples have been collected from below 5 ft bgs since the last monitoring wells were installed in 1990.
Conclusion: Additional soil sampling may be required prior to closure in order to verify impact in site soils.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by	Title: Hazardous Materials Specialist
Signature:	Date:
Approved by:	Title: Supervising Hazardous Materials Specialist
Signature:	Date:

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name:	Title:
Notification Date:	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: N/A	Date of Well Decommissioning Report: N/A	
All Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 10
Reason Wells Retained: Wells will be abandoned once closure is granted.		
Additional requirements for submittal of groundwater data from retained wells:		
ACEH Concurrence - Signature:	Date:	

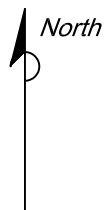
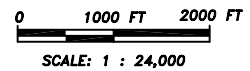
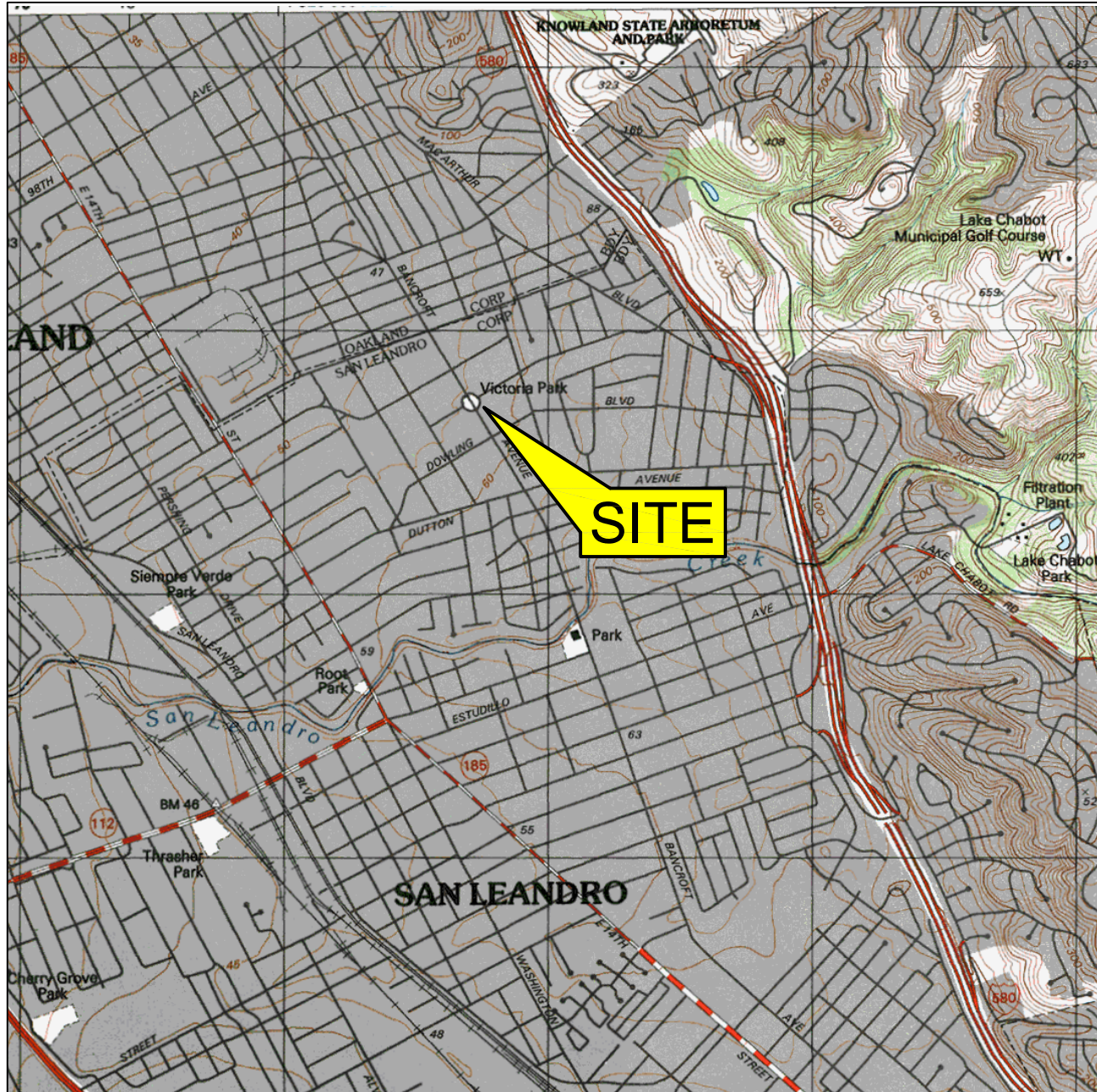
ATTACHMENTS:

- Attachment 1 – Site Vicinity Map (1 pp)
- Attachment 2 – Site Plans (1 pp)
- Attachment 3 – AGS 1988 Soil Analyticals (11 pp)
- Attachment 4 – 3Q10 M&S Analyticals (29 pp)
- Attachment 5 – PEG 1998 Soil Analyticals (18 pp)
- Attachment 6 – Historical Boring Logs (20 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

ATTACHMENT 1

Site Vicinity Map
(1 pp)



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SAN LEANDRO QUADRANGLE, 1967

FIGURE 1
SITE LOCATION MAP

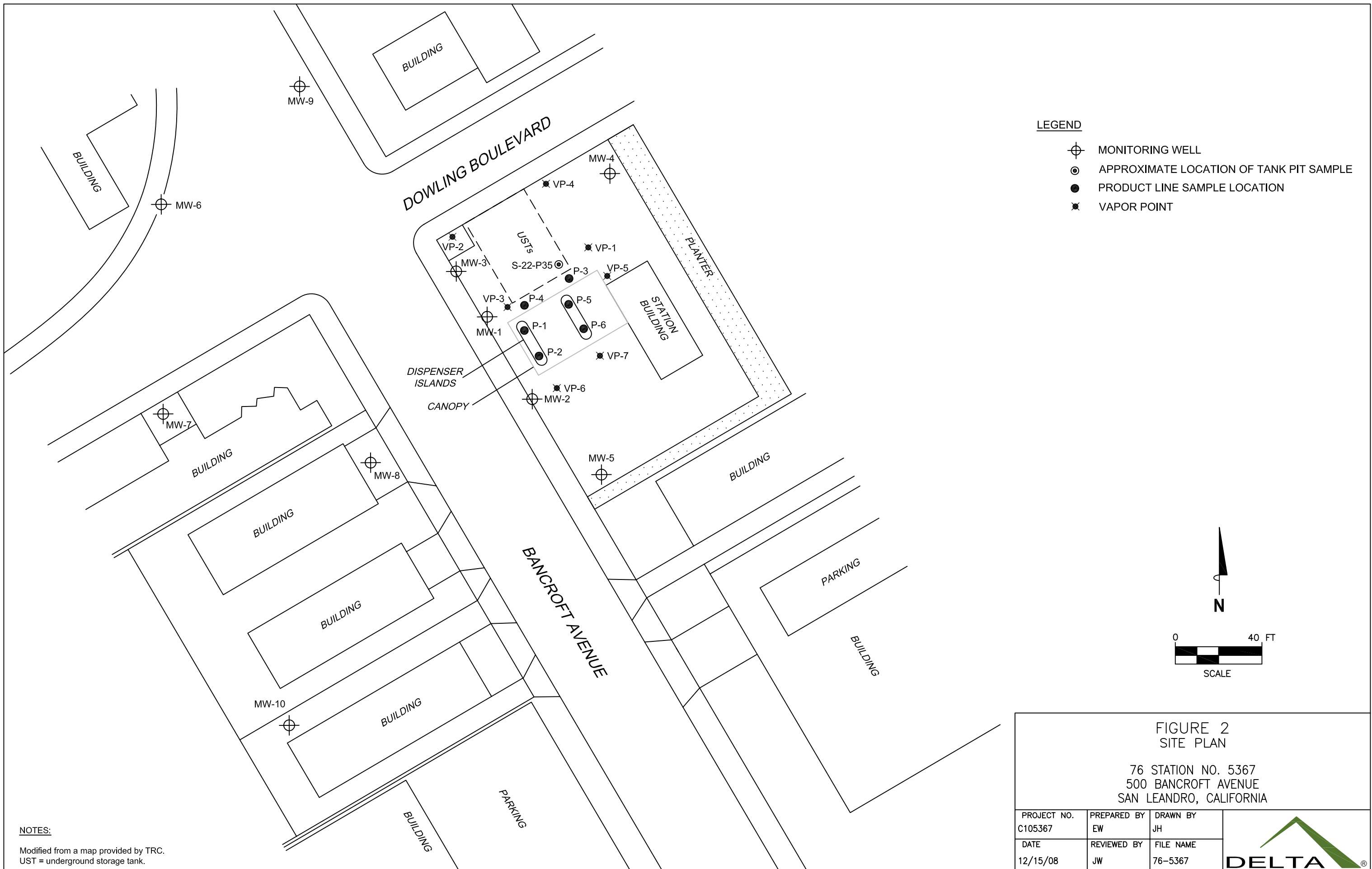
76 SERVICE STATION NO. 5367
500 BANCROFT AVENUE
SAN LEANDRO, CA

PROJECT NO. C105-367	DRAWN BY MC 5/25/06
FILE NO. Site Locator 5367	PREPARED BY MC
REVISION NO. 1	REVIEWED BY



ATTACHMENT 2

Site Plans
(1 pp)



LEGEND

- ⊕ MONITORING WELL
- ⊙ APPROXIMATE LOCATION OF TANK PIT SAMPLE
- PRODUCT LINE SAMPLE LOCATION
- ✕ VAPOR POINT

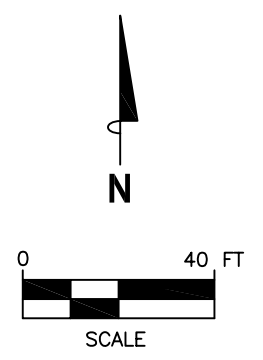


FIGURE 2 SITE PLAN 76 STATION NO. 5367 500 BANCROFT AVENUE SAN LEANDRO, CALIFORNIA		
PROJECT NO. C105367	PREPARED BY EW	DRAWN BY JH
DATE 12/15/08	REVIEWED BY JW	FILE NAME 76-5367

NOTES:
Modified from a map provided by TRC.
UST = underground storage tank.

ATTACHMENT 3

AGS 1988 Soil Analyticals
(11 pp)

water samples are presented on Table 3.

TABLE 3 RESULTS OF SOIL AND WATER ANALYSES UNOCAL Service Station No. 5367 500 Bancroft Avenue San Leandro, California					
Sample Number	TPH	Benzene	Ethyl- benzene	Toluene	Total Xylenes
S-10.5-B2	<2	<0.05	<0.05	<0.05	<0.05
S-30.5-B2	52	0.17	1.52	<0.05	5.11
S-26.0-B3	7	0.10	0.30	0.45	1.67
S-36.0-B3	3,692	8	65	129	394
S-11-B4	<2	<0.05	<0.05	<0.05	<0.05
S-30.5-B4	<2	<0.05	<0.05	<0.05	<0.05
W-37-MW2	1.76	0.0478	0.0209	0.0074	0.0816
W-37-MW3	61	1.06	1.52	3.38	8.72
W-37-MW4	<0.0005	<0.0005	<0.0005	<0.0005	<0.02

Results in parts per million (ppm).
 TPH = Total petroleum hydrocarbons
 < = Less than the detection limit for analysis used
 NA = Not analyzed
 Sample designation:
 W-11-MW3
 ┌───┐ Boring or monitoring well number
 │ ┌──┐ Depth of sample in feet
 │ │ ┌──┐ Sample matrix
 │ │ │ (W = water, S = soil)



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

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ANALYSIS REPORT

Report Prepared for:
Applied GeoSystems
43255 Mission Boulevard
Fremont, CA 94539
Attention: John T. Lambert

0212lab.frm
Date Received: 10-03-88
Laboratory Number: 10003S01
Project: 87091-3
Sample: S-10.5-B2
Matrix: Soil

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline	ND		2		10-04-88	
TEH as Diesel						NR
Benzene	ND		0.05		10-04-88	
Toluene	ND		0.05		10-04-88	
Ethylbenzene	ND		0.05		10-04-88	
Total Xylenes	ND		0.05		10-04-88	

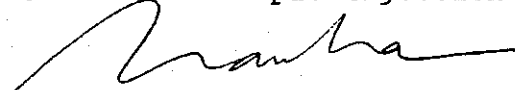
mg/kg = milligrams per kilogram = parts per million (ppm).
mg/L = milligrams per liter = ppm.
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not required.

PROCEDURES

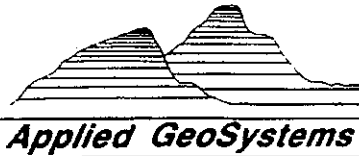
TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TEH--Total extractable hydrocarbons (high boiling points) are measured by extraction according to EPA Method 3550 for soils or EPA Method 3510 for water followed by a modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.


Tia Tran, Laboratory Supervisor

10-11-88
Date Reported



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

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ANALYSIS REPORT

Report Prepared for:
 Applied GeoSystems
 43255 Mission Boulevard
 Fremont, CA 94539
 Attention: John T. Lambert

0212lab.frm

Date Received: 10-03-88
 Laboratory Number: 10003S02
 Project: 87091-3
 Sample: S-30.5-B2
 Matrix: Soil

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline	52		2		10-04-88	
TEH as Diesel						NR
Benzene	0.17		0.05		10-04-88	
Toluene	ND		0.05		10-04-88	
Ethylbenzene	1.52		0.05		10-04-88	
Total Xylenes	5.11		0.05		10-04-88	

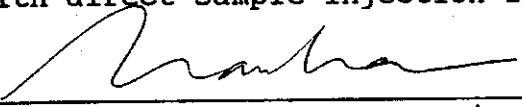
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 Tia Tran, Laboratory Supervisor

10-11-88
 Date Reported



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

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ANALYSIS REPORT

Report Prepared for:	Date Received:	0212lab.frm
Applied GeoSystems	Laboratory Number:	10-03-88
43255 Mission Boulevard	Project:	10003S03
Fremont, CA 94539	Sample:	87091-3
Attention: John T. Lambert	Matrix:	S-26.0-B3
		Soil

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline	7		2		10-04-88	
TEH as Diesel						NR
Benzene	0.10		0.05		10-04-88	
Toluene	0.45		0.05		10-04-88	
Ethylbenzene	0.30		0.05		10-04-88	
Total Xylenes	1.67		0.05		10-04-88	

mg/kg = milligrams per kilogram = parts per million (ppm).

mg/L = milligrams per liter = ppm.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

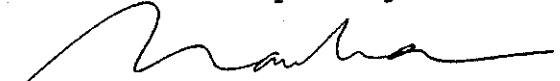
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PROCEDURES

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Tia Tran, Laboratory Supervisor

10-11-88
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Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

• FREMONT • COSTA MESA • SACRAMENTO • HOUSTON

ANALYSIS REPORT

Report Prepared for: Applied GeoSystems
43255 Mission Boulevard
Fremont, CA 94539
Attention: John T. Lambert

Date Received: 10-03-88
Laboratory Number: 10003S04
Project: 87091-3
Sample: S-36.0-B3
Matrix: Soil

0212lab.frm

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline			20		10-04-88	NR
TPH as Gasoline	3692					NR
TEH as Diesel			1		10-04-88	
Benzene	8		1		10-04-88	
Toluene	129		1		10-04-88	
Ethylbenzene	65		1		10-04-88	
Total Xylenes	394		1		10-04-88	

mg/kg = milligrams per kilogram = parts per million (ppm).

mg/L = milligrams per liter = ppm.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not required.

PROCEDURES

TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TEH--Total extractable hydrocarbons (high boiling points) are measured by extraction according to EPA Method 3550 for soils or EPA Method 3510 for water followed by a modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.


Tia Tran, Laboratory Supervisor

10-11-88
Date Reported



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

• FREMONT • COSTA MESA • SACRAMENTO • HOUSTON

ANALYSIS REPORT

Report Prepared for:
Applied GeoSystems
43255 Mission Boulevard
Fremont, CA 94539
Attention: John T. Lambert

0212lab.frm
Date Received: 10-03-88
Laboratory Number: 10003S05
Project: 87091-3
Sample: S-11-B4
Matrix: Soil

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline	ND		2		10-04-88	NR
TEH as Diesel						
Benzene	ND		0.05		10-04-88	
Toluene	ND		0.05		10-04-88	
Ethylbenzene	ND		0.05		10-04-88	
Total Xylenes	ND		0.05		10-04-88	

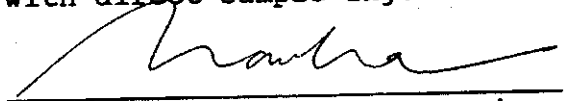
mg/kg = milligrams per kilogram = parts per million (ppm).
mg/L = milligrams per liter = ppm.
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not required.

PROCEDURES

TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TEH--Total extractable hydrocarbons (high boiling points) are measured by extraction according to EPA Method 3550 for soils or EPA Method 3510 for water followed by a modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.


Tia Tran, Laboratory Supervisor

10-11-88
Date Reported



Applied GeoSystems

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ANALYSIS REPORT

Report Prepared for:
Applied GeoSystems
43255 Mission Boulevard
Fremont, CA 94539
Attention: John T. Lambert

0212lab.frm
Date Received: 10-03-88
Laboratory Number: 10003S06
Project: 87091-3
Sample: S-30.5-B4
Matrix: Soil

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline	ND		2		10-04-88	NR
TEH as Diesel						
Benzene	ND		0.05		10-04-88	
Toluene	ND		0.05		10-04-88	
Ethylbenzene	ND		0.05		10-04-88	
Total Xylenes	ND		0.05		10-04-88	

mg/kg = milligrams per kilogram = parts per million (ppm).

mg/L = milligrams per liter = ppm.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

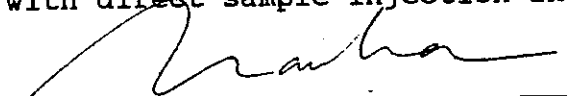
NR = Analysis not required.

PROCEDURES

TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

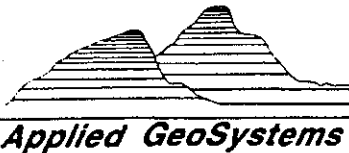
TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

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Tia Tran, Laboratory Supervisor

10-11-88
Date Reported

APPLIED GEOSYSTEMS IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY



43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

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ANALYSIS REPORT

Report Prepared for:
Applied GeoSystems
43255 Mission Blvd.
Fremont, CA 94539
Attention: John T. Lambert

0212lab.frm

Date Received: 10-05-88
Laboratory Number: 10008W01
Project: 87091-3
Sample: W-37-MW2
Matrix: Water

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline		1.76		0.02	10-06-88	
TEH as Diesel						NR
Benzene		0.0478		0.0005	10-06-88	
Toluene		0.0074		0.0005	10-06-88	
Ethylbenzene		0.0209		0.0005	10-06-88	
Total Xylenes		0.0816		0.0005	10-06-88	

mg/kg = milligrams per kilogram = parts per million (ppm).

mg/L = milligrams per liter = ppm.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not required.

PROCEDURES

TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

TPH--Total petroleum hydrocarbons (low-to-medium boiling points) are measured by extraction according to EPA Method 5030 followed by analysis by a modified EPA Method 8015 which uses a GC equipped with an FID. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

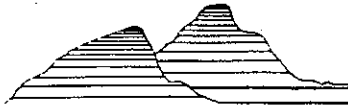
TEH--Total extractable hydrocarbons (high boiling points) are measured by extraction according to EPA Method 3550 for soils or EPA Method 3510 for water followed by a modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.



Tia Tran, Laboratory Supervisor

10-13-88

Date Reported



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

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ANALYSIS REPORT

Report Prepared for:
Applied GeoSystems
43255 Mission Blvd.
Fremont, CA 94539
Attention: John T. Lambert

0212lab.frm
Date Received: 10-05-88
Laboratory Number: 10008W02
Project: 87091-3
Sample: W-37-MW3
Matrix: Water

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline		61		1	10-06-88	
TEH as Diesel						NR
Benzene		1.06		0.05	10-06-88	
Toluene		3.38		0.05	10-06-88	
Ethylbenzene		1.52		0.05	10-06-88	
Total Xylenes		8.72		0.05	10-06-88	

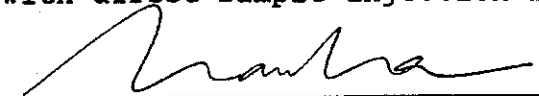
mg/kg = milligrams per kilogram = parts per million (ppm).
mg/L = milligrams per liter = ppm.
ND = Not detected. Compound(s) may be present at concentrations below the detection limit.
NR = Analysis not required.

PROCEDURES

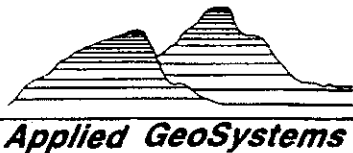
TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

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Tia Tran, Laboratory Supervisor

10-13-88
Date Reported



Applied GeoSystems

43255 Mission Boulevard, Fremont, CA 94539 (415) 651-1906

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ANALYSIS REPORT

Report Prepared for:
Applied GeoSystems
43255 Mission Blvd.
Fremont, CA 94539
Attention: John T. Lambert

0212lab.frm
Date Received: 10-05-88
Laboratory Number: 10008W03
Project: 87091-3
Sample: W-37-MW4
Matrix: Water

Parameter	Result		Detection Limit		Date Analyzed	Notes
	(mg/kg)	(mg/L)	(mg/kg)	(mg/L)		
TVH as Gasoline						NR
TPH as Gasoline		ND		0.02	10-06-88	
TEH as Diesel						NR
Benzene		ND		0.0005	10-06-88	
Toluene		ND		0.0005	10-06-88	
Ethylbenzene		ND		0.0005	10-06-88	
Total Xylenes		ND		0.0005	10-06-88	

mg/kg = milligrams per kilogram = parts per million (ppm).

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TVH/BTEX--Total volatile hydrocarbons (TVH) and benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction according to EPA Method 5030 followed by analysis by a EPA Method 8020/602 (modified for TVH) which uses a gas chromatograph (GC) equipped with a photo-ionization detector (PID) and a flame-ionization detector (FID) in series. Soil extracts and water samples are subjected to purge-and-trap introduction into the GC.

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Tia Tran, Laboratory Supervisor

10-13-88
Date Reported

ATTACHMENT 4

3Q10 M&S Analyticals
(29 pp)

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 30, 2010
76 Station 5367

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
			(Screen Interval in feet: 10.0-35.0)											
MW-1	9/30/2010	57.83	30.63	0.00	27.20	-1.95	--	6600	6.9	ND<5.0	510	38	--	ND<5.0
			(Screen Interval in feet: 28.0-48.0)											
MW-2	9/30/2010	58.13	30.48	0.00	27.65	-1.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 23.0-48.0)											
MW-3	9/30/2010	57.92	30.13	0.00	27.79	-1.95	--	99	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 23.0-48.0)											
MW-4	9/30/2010	58.29	31.43	0.00	26.86	-2.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 25.0-45.0)											
MW-5	9/30/2010	58.50	31.10	0.00	27.40	-1.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 25.0-45.0)											
MW-6	9/30/2010	56.96	29.88	0.00	27.08	-2.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 24.0-44.0)											
MW-7	9/30/2010	57.25	30.22	0.00	27.03	-2.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 24.0-44.0)											
MW-8	9/30/2010	57.71	30.52	0.00	27.19	-2.17	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 20.0-45.0)											
MW-9	9/30/2010	56.47	29.23	0.00	27.24	-1.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
			(Screen Interval in feet: 20.0-45.0)											
MW-10	9/30/2010	58.94	31.90	0.00	27.04	-2.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50





Date of Report: 10/13/2010

Anju Farfan

TRC

123 Technology Drive
Irvine, CA 92618

RE: 5367
BC Work Order: 1013706
Invoice ID: B088291

Enclosed are the results of analyses for samples received by the laboratory on 9/30/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1013706 Page 1 of 3

BC LABORATORIES, INC.

4100 Atlas Court Bakersfield, CA 93308
(661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

Analysis Requested

10-13706

Bill to: Conoco Phillips/ TRC		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015 TPH GAS by 8015M TPH DIESEL by 8015 8260 full list w/ oxygenates BTEX/MTBE BY 8260B ETHANOL by 8260B TPH - G by GC/MS, EDB/EDC by 8060B EDB by 504	Turnaround Time Requested
Address: 500 Bancroft Ave.		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan				
City: San Leandro		4-digit site#: 5367 Workorder # 01400-4512941504				
State: CA Zip:		Project #: 173845				
Conoco Phillips Mgr: Bill Borgh		Sampler Name: A Ydners				
Lab#	Sample Description	Field Point Name	Date & Time Sampled			
-1		MW-9	09/30/10 0729	3		STD
-2		MW-8	0819	6		
-3		MW-6	0755	6		
-4		MW-10	0842	3		
-5		MW-4	0921			
-6		MW-3	0948			
-7		MW-2	1033			
-8		MW-5	1006			
Comments: GLOBAL ID: T0600101479		Relinquished by: (Signature)		Received by:		Date & Time
		 Relinquished by: (Signature)		 Received by:		9/30/10 1450
		 Relinquished by: (Signature)		 Received by:		9:30-10 1820
		 Relinquished by: (Signature)		 Received by:		9/30/10 2130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 3 of 28



Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1013706 Page 2 of 3

BC LABORATORIES, INC.

4100 Atlas Court Bakersfield, CA 93308
(661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

Analysis Requested

10-13706

Bill to: Conoco Phillips/ TRC		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015 TPH GAS by 8015M TPH DIESEL by 8015 8260 full list w/ oxygenates BTEX/MTBE/ 8015 BY 8260B ETHANOL by 8260B TPH -G by GC/MS, EDB/EDC by 8260B EDB by 504	Turnaround Time Requested
Address: 500 Bancroft Ave		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan				
City: San Leandro		4-digit site#: 5367 Workorder # 01400-4512941504				
State: CA	Zip:	Project #: 173945				
Conoco Phillips Mgr: Bill Borgh		Sampler Name: A. Vidwers				
Lab#	Sample Description	Field Point Name	Date & Time Sampled			
-9		MW-7	09/30/10 1110	3		STD
-10		MW-1	↓ 1048	6		↓

CHK BY DISTRIBUTION
 SUB-OUT

Comments: GLOBAL ID: T0600101479	Relinquished by: (Signature)	Received by:	Date & Time 9/30/10 1450
	Relinquished by: (Signature)	Received by:	Date & Time 9-30-10 1820
	Relinquished by: (Signature)	Received by:	Date & Time 9/28/10 2130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 4 of 28



BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 05/24/08 Page 1 of 1

Submission #: 1013706

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO
 Emissivity: 0.8 Container: VOA Thermometer ID: 163
 Temperature: A 4.3 °C / C 4.3 °C
 Date/Time 9-30-10
 Analyst Init JLW 2150

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL / GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2or. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3	A3	A3	A3	A3	A3	A3	A3
QT EPA 413.1, 413.2, 413.3										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JLW Date/Time: 10-1-10 1700
 * = Actual / C = Corrected

[H:\DOCS\WPB\LAB_DOC\FORMS\SAMREC2\WPD]



TRC
123 Technology Drive
Irvine, CA 92618

Reported: 10/13/2010 14:46
Project: 5367
Project Number: 4512941504
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1013706-01	COC Number: --- Project Number: 5367 Sampling Location: --- Sampling Point: MW-9 Sampled By: TRCI	Receive Date: 09/30/2010 21:30 Sampling Date: 09/30/2010 07:29 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101479 Location ID (FieldPoint): MW-9 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1013706-02	COC Number: --- Project Number: 5367 Sampling Location: --- Sampling Point: MW-8 Sampled By: TRCI	Receive Date: 09/30/2010 21:30 Sampling Date: 09/30/2010 08:19 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101479 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

1013706-03	COC Number: --- Project Number: 5367 Sampling Location: --- Sampling Point: MW-6 Sampled By: TRCI	Receive Date: 09/30/2010 21:30 Sampling Date: 09/30/2010 07:55 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101479 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1013706-04	COC Number: --- Project Number: 5367 Sampling Location: --- Sampling Point: MW-10 Sampled By: TRCI	Receive Date: 09/30/2010 21:30 Sampling Date: 09/30/2010 08:42 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101479 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 10/13/2010 14:46
Project: 5367
Project Number: 4512941504
Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1013706-05	COC Number: ---	Receive Date: 09/30/2010 21:30
	Project Number: 5367	Sampling Date: 09/30/2010 09:21
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-4	Sample Matrix: Water
	Sampled By: TRCI	Delivery Work Order:
		Global ID: T0600101479
		Location ID (FieldPoint): MW-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1013706-06	COC Number: ---	Receive Date: 09/30/2010 21:30
	Project Number: 5367	Sampling Date: 09/30/2010 09:48
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3	Sample Matrix: Water
	Sampled By: TRCI	Delivery Work Order:
		Global ID: T0600101479
		Location ID (FieldPoint): MW-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1013706-07	COC Number: ---	Receive Date: 09/30/2010 21:30
	Project Number: 5367	Sampling Date: 09/30/2010 10:33
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-2	Sample Matrix: Water
	Sampled By: TRCI	Delivery Work Order:
		Global ID: T0600101479
		Location ID (FieldPoint): MW-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1013706-08	COC Number: ---	Receive Date: 09/30/2010 21:30
	Project Number: 5367	Sampling Date: 09/30/2010 10:06
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-5	Sample Matrix: Water
	Sampled By: TRCI	Delivery Work Order:
		Global ID: T0600101479
		Location ID (FieldPoint): MW-5
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:



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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1013706-09	COC Number: --- Project Number: 5367 Sampling Location: --- Sampling Point: MW-7 Sampled By: TRCI	Receive Date: 09/30/2010 21:30 Sampling Date: 09/30/2010 11:10 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101479 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1013706-10	COC Number: --- Project Number: 5367 Sampling Location: --- Sampling Point: MW-1 Sampled By: TRCI	Receive Date: 09/30/2010 21:30 Sampling Date: 09/30/2010 10:48 Sample Depth: --- Sample Matrix: Water Delivery Work Order: Global ID: T0600101479 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Project Number: 4512941504
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-01	Client Sample Name: 5367, MW-9, 9/30/2010 7:29:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	85.4	%	88 - 110 (LCL - UCL)	EPA-8260		A20,S09	1
4-Bromofluorobenzene (Surrogate)	94.9	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 21:02	KEA	MS-V10	1	BTJ0204



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Project: 5367
Project Number: 4512941504
Project Manager: Anju Farfan

EDB/DBCP Analysis (EPA Method 504.1)

BCL Sample ID: 1013706-02	Client Sample Name: 5367, MW-8, 9/30/2010 8:19:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethylene dibromide	ND	ug/L	0.010	EPA-504.1	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-504.1	10/12/10	10/12/10 15:59	VH1	GC-4	0.945	BTJ0729



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Project: 5367
Project Number: 4512941504
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-02	Client Sample Name: 5367, MW-8, 9/30/2010 8:19:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	130	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	94.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 20:44	KEA	MS-V10	1	BTJ0204



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EDB/DBCP Analysis (EPA Method 504.1)

BCL Sample ID: 1013706-03	Client Sample Name: 5367, MW-6, 9/30/2010 7:55:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethylene dibromide	ND	ug/L	0.010	EPA-504.1	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-504.1	10/12/10	10/12/10 16:13	VH1	GC-4	0.942	BTJ0729



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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-03	Client Sample Name: 5367, MW-6, 9/30/2010 7:55:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	88.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.3	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 20:26	KEA	MS-V10	1	BTJ0204

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-04	Client Sample Name: 5367, MW-10, 9/30/2010 8:42:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	79.1	%	88 - 110 (LCL - UCL)	EPA-8260		A20,S09	1
4-Bromofluorobenzene (Surrogate)	94.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 20:09	KEA	MS-V10	1	BTJ0204

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-05	Client Sample Name: 5367, MW-4, 9/30/2010 9:21:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.8	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 19:51	KEA	MS-V10	1	BTJ0204

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Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-06	Client Sample Name: 5367, MW-3, 9/30/2010 9:48:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	99	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.0	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 19:33	KEA	MS-V10	1	BTJ0204

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-07	Client Sample Name: 5367, MW-2, 9/30/2010 10:33:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 19:15	KEA	MS-V10	1	BTJ0204

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Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-08	Client Sample Name: 5367, MW-5, 9/30/2010 10:06:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	88.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 18:57	KEA	MS-V10	1	BTJ0204

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Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-09	Client Sample Name: 5367, MW-7, 9/30/2010 11:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	88.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.4	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 18:39	KEA	MS-V10	1	BTJ0204

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Project Number: 4512941504
Project Manager: Anju Farfan

EDB/DBCP Analysis (EPA Method 504.1)

BCL Sample ID: 1013706-10	Client Sample Name: 5367, MW-1, 9/30/2010 10:48:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethylene dibromide	ND	ug/L	0.010	EPA-504.1	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-504.1	10/12/10	10/12/10 16:28	VH1	GC-4	0.946	BTJ0729



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Project Number: 4512941504
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1013706-10	Client Sample Name: 5367, MW-1, 9/30/2010 10:48:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	6.9	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Ethylbenzene	510	ug/L	5.0	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Toluene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Xylenes	38	ug/L	10	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	6600	ug/L	500	Luft-GC/MS	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	10/05/10	10/05/10 18:21	KEA	MS-V10	10	BTJ0204

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Project Number: 4512941504
Project Manager: Anju Farfan

EDB/DBCP Analysis (EPA Method 504.1)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTJ0729						
Ethylene dibromide	BTJ0729-BLK1	ND	ug/L	0.010		



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Reported: 10/13/2010 14:46
Project: 5367
Project Number: 4512941504
Project Manager: Anju Farfan

EDB/DBCP Analysis (EPA Method 504.1)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BTJ0729										
Ethylene dibromide	BTJ0729-BS1	LCS	0.34953	0.35714	ug/L	97.9		59	140	



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Project Number: 4512941504
Project Manager: Anju Farfan

EDB/DBCP Analysis (EPA Method 504.1)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTJ0729		Used client sample: N									
Ethylene dibromide	MS	1013191-46	ND	0.32239	0.35714	ug/L		90.3		51 - 141	
	MSD	1013191-46	ND	0.35430	0.35714	ug/L	9.4	99.2	30	51 - 141	



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Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTJ0204						
Benzene	BTJ0204-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BTJ0204-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BTJ0204-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTJ0204-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTJ0204-BLK1	ND	ug/L	0.50		
Toluene	BTJ0204-BLK1	ND	ug/L	0.50		
Total Xylenes	BTJ0204-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BTJ0204-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BTJ0204-BLK1	103	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTJ0204-BLK1	98.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTJ0204-BLK1	98.3	%	86 - 115 (LCL - UCL)		



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Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BTJ0204										
Benzene	BTJ0204-BS1	LCS	25.550	25.000	ug/L	102		70 - 130		
Toluene	BTJ0204-BS1	LCS	27.460	25.000	ug/L	110		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTJ0204-BS1	LCS	10.100	10.000	ug/L	101		76 - 114		
Toluene-d8 (Surrogate)	BTJ0204-BS1	LCS	10.140	10.000	ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTJ0204-BS1	LCS	10.060	10.000	ug/L	101		86 - 115		



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Project: 5367
Project Number: 4512941504
Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTJ0204		Used client sample: N								
Benzene	MS	1013191-51	ND	26.930	25.000	ug/L		108		70 - 130
	MSD	1013191-51	ND	22.590	25.000	ug/L	17.5	90.4	20	70 - 130
Toluene	MS	1013191-51	ND	28.420	25.000	ug/L		114		70 - 130
	MSD	1013191-51	ND	24.080	25.000	ug/L	16.5	96.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1013191-51	ND	10.140	10.000	ug/L		101		76 - 114
	MSD	1013191-51	ND	10.370	10.000	ug/L		104		76 - 114
Toluene-d8 (Surrogate)	MS	1013191-51	ND	9.9100	10.000	ug/L		99.1		88 - 110
	MSD	1013191-51	ND	10.020	10.000	ug/L		100		88 - 110
4-Bromofluorobenzene (Surrogate)	MS	1013191-51	ND	10.080	10.000	ug/L		101		86 - 115
	MSD	1013191-51	ND	9.7600	10.000	ug/L		97.6		86 - 115



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Project: 5367
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Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A20 Surrogate is low due to matrix interference. Interference verified through second extraction/analysis.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.

ATTACHMENT 5

PEG 1998 Soil Analyticals
(18 pp)

Table 1
Soil Analytical Data

76 Service Station 5367
500 Bancroft Avenue at Dowling Boulevard
San Leandro, California

Sample ID	Sample Depth (feet)	Date Sampled	TPPH as Gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-Benzene (ppm)	Total Xylenes (ppm)	TEPH as Diesel (ppm)	MtBE (ppm)	TTLIC Lead (ppm)
In-Situ Soil Samples:										
P-1	3	10/26/98	ND	ND	ND	ND	ND	3.1 ⁽¹⁾	ND	10
P-2	4	10/26/98	ND	ND	ND	ND	ND	ND	ND	10
P-3	5-1/2	10/26/98	ND	ND	ND	ND	ND	1.8 ⁽¹⁾	ND	8.8
P-4	5	10/26/98	ND	ND	ND	ND	ND	1.0 ⁽¹⁾	ND	8.6
P-5	4-1/2	10/26/98	ND	ND	ND	ND	ND	ND	ND	6.8
P-6	4	10/26/98	ND	ND	ND	ND	ND	ND	ND	9.2
Stockpiled Soil Samples:										
SP(1-4)	NA	10/26/98	ND	ND	ND	ND	0.040	ND	ND	11
TPPH	= Total purgeable petroleum hydrocarbons									
MtBE	= Methyl tert-butyl ether									
TEPH	= Total extractable petroleum hydrocarbons									
TTLIC	= Total threshold limit concentration									
ppm	= Parts per million									
ND	= Not detected									
NA	= Not applicable									
(1)	= Atypical chromatograph pattern reported by analytical laboratory.									
Detection limits are indicated in certified analytical reports.										



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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: P-1 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9810177-01	Sampled: 10/26/98 Received: 10/27/98 Extracted: 11/03/98 Analyzed: 11/04/98 Reported: 11/06/98
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QC Batch Number: GC110398BTEXEXB
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100
4-Bromofluorobenzene	60 140	78

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: P-1 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9810177-01	Sampled: 10/26/98 Received: 10/27/98 Extracted: 10/29/98 Analyzed: 11/03/98 Reported: 11/06/98
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QC Batch Number: GC1029980HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	3.1 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 80

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 311-127.1B/5367, 500 Bancoft Sample Descript: P-2 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9810177-02	Sampled: 10/26/98 Received: 10/27/98 Extracted: 11/03/98 Analyzed: 11/04/98 Reported: 11/06/98
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QC Batch Number: GC110398BTEXEXB
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	107
4-Bromofluorobenzene	60 140	90

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: P-2 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9810177-02	Sampled: 10/26/98 Received: 10/27/98 Extracted: 10/29/98 Analyzed: 11/03/98 Reported: 11/06/98
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QC Batch Number: GC1029980HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	99

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: P-3 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9810177-03	Sampled: 10/26/98 Received: 10/27/98 Extracted: 11/03/98 Analyzed: 11/04/98 Reported: 11/06/98
--	--	--

QC Batch Number: GC110398BTEXEXB
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101
4-Bromofluorobenzene	60 140	88

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancoft Sample Descript: P-3 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9810177-03	Sampled: 10/26/98 Received: 10/27/98 Extracted: 10/29/98 Analyzed: 11/03/98 Reported: 11/06/98
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QC Batch Number: GC1029980HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	1.8 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 97

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: P-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9810177-04	Sampled: 10/26/98 Received: 10/27/98 Extracted: 11/03/98 Analyzed: 11/04/98 Reported: 11/06/98
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QC Batch Number: GC110398BTEXEXB
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101
4-Bromofluorobenzene	60 140	93

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancoft Sample Descript: P-4 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9810177-04	Sampled: 10/26/98 Received: 10/27/98 Extracted: 10/29/98 Analyzed: 11/03/98 Reported: 11/06/98
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QC Batch Number: GC1029980HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	1.0 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 90

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancoft Sample Descript: P-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9810177-05	Sampled: 10/26/98 Received: 10/27/98 Extracted: 11/03/98 Analyzed: 11/04/98 Reported: 11/06/98
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QC Batch Number: GC110398BTEXEXB
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	97
4-Bromofluorobenzene	60 140	80

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Tina Berry

Client Proj. ID: 311-127.1B/5367, 500 Bancroft
Sample Descript: P-5
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9810177-05

Sampled: 10/26/98
Received: 10/27/98
Extracted: 10/29/98
Analyzed: 11/03/98
Reported: 11/06/98

QC Batch Number: GC1029980HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	88

Analytes reported as N.D. were not present above the stated limit of detection.

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: P-6 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9810177-06	Sampled: 10/26/98 Received: 10/27/98 Extracted: 11/03/98 Analyzed: 11/04/98 Reported: 11/06/98
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QC Batch Number: GC110398BTEXEXB
Instrument ID: GCHP7

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102
4-Bromofluorobenzene	60 140	98

Analytes reported as N.D. were not present above the stated limit of detection.

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FAX (916) 921-0100
FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: P-6 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9810177-06	Sampled: 10/26/98 Received: 10/27/98 Extracted: 10/29/98 Analyzed: 11/03/98 Reported: 11/06/98
---	--	--

QC Batch Number: GC1029980HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 77

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Page: 13





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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: SP(1-4) Comp Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9810177-07	Sampled: 10/26/98 Received: 10/27/98 Extracted: 11/03/98 Analyzed: 11/05/98 Reported: 11/06/98
---	---	--

QC Batch Number: GC110398BTEXEXB
Instrument ID: GCHP31

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.040
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99
4-Bromofluorobenzene	60 140	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Page: 14



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Analytical**

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FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Tina Berry	Client Proj. ID: 311-127.1B/5367, 500 Bancroft Sample Descript: SP(1-4) Comp Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9810177-07	Sampled: 10/26/98 Received: 10/27/98 Extracted: 10/29/98 Analyzed: 11/03/98 Reported: 11/06/98
---	---	--

QC Batch Number: GC1029980HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Ste. 440
San Jose, CA 95110
Attention: Tina Berry

Client Project ID: 311-127.1B/5367, 500 Bancroft

QC Sample Group: 9810177

Reported: Nov 6, 1998

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8020
Analyst: G.P.

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
---------	---------	---------	--------------	---------

QC Batch #: GC110398BTEXEXB

Sample No.: 9810177-3

Date Prepared:	11/3/98	11/3/98	11/3/98	11/3/98
Date Analyzed:	11/4/98	11/4/98	11/4/98	11/4/98
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22

Sample Conc., mg/Kg:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, mg/Kg:	0.20	0.20	0.20	0.60

Matrix Spike, mg/Kg:	0.20	0.20	0.20	0.59
% Recovery:	100	100	100	98

Matrix Spike Duplicate, mg/Kg:	0.20	0.20	0.21	0.60
% Recovery:	100	100	105	100

Relative % Difference:	0.0	0.0	4.9	2.0
------------------------	-----	-----	-----	-----

RPD Control Limits:	0-25	0-25	0-25	0-25
---------------------	------	------	------	------

LCS Batch#: GC110398BTEXEXB

Date Prepared:	11/3/98	11/3/98	11/3/98	11/3/98
Date Analyzed:	11/4/98	11/4/98	11/4/98	11/4/98
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22

Conc. Spiked, mg/Kg:	0.20	0.20	0.20	0.60
----------------------	------	------	------	------

Recovery, mg/Kg:	0.22	0.21	0.21	0.66
LCS % Recovery:	110	105	105	110

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.





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FAX (707) 792-0342

Pacific Environmental Group
2025 Gateway Place, Ste. 440
San Jose, CA 95110
Attention: Tina Berry

Client Project ID: 311-127.1B/5367, 500 Bancroft

QC Sample Group: 9810177

Reported: Nov 6, 1998

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8015M
Analyst: A. PORTER

ANALYTE Diesel

QC Batch #: GC1029980HBPEXC

Sample No.: 9810183-5
Date Prepared: 10/28/98
Date Analyzed: 10/30/98
Instrument I.D.#: GCHP5B

Sample Conc., mg/Kg: 10 mg/Kg
Conc. Spiked, mg/Kg: 17

THE MS AND MSD ARE REFERED
FROM GC1028980HBPEXB.

Matrix Spike, mg/Kg: 20
% Recovery: 59

Matrix
Spike Duplicate, mg/Kg: 23
% Recovery: 76

Relative % Difference: 25

RPD Control Limits: 0-50

LCS Batch#: BLK102998CS

Date Prepared: 10/29/98
Date Analyzed: 11/3/98
Instrument I.D.#: GCHP4B

Conc. Spiked, mg/Kg: 17

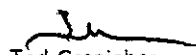
Recovery, mg/Kg: 17
LCS % Recovery: 100

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL


Tod Granicher
Project Manager

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.





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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Tina Berry

Client Proj. ID: 311-127.1B/5367, 500 Bancroft
Lab Proj. ID: 9810177

Received: 10/27/98
Reported: 11/06/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 20 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Tod Granicher
Project Manager



ATTACHMENT 6

Historical Boring Logs
(20 pp)

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0				Concrete (6 inches).	
2			CH	Clay, black with fragments of red brick, no product odor.	
4	27	S-5	CL	Silty clay, some silt, brown, damp, medium to high plasticity, stiff, no product odor.	
6					
8					
10	22	S-10		With trace of fine-grained gravel.	
12					
14	10	S-15	ML	Clayey silt, some clay, brown, very moist, low plasticity, stiff, no product odor.	
16					
18					
20	11	S-20	CL	Silty clay with trace of coarse-grained sand, brown-green, wet, medium plasticity, stiff, strong product odor.	
22					
24					
26	47	S-25		Some silt, brown with green mottling, moist, hard.	
28					
30					

(Section continues downward)



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LOG OF BORING B-1/MW-1 PLATE

UNOCAL Station No. 5367
500 Bancroft Avenue
San Leandro, California

P-4

PROJECT NO. 87091-1

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.	
	30	25	S-30	CL	Silty clay, some silt, brown with green mottling, moist, medium plasticity, very stiff, strong product odor.	[Well Construction Diagram]
32						
34	28	S-35				
36	Total Depth = 36 feet. Boring terminated at sufficient depth to evaluate contamination above and below water table.					
38						
40						



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PROJECT NO. 87091-1

LOG OF BORING B-1/MW-1

UNOCAL Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE

P-5

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0				Asphalt over sandy gravel.	
2			CL	Silty clay, dark brown-black, damp, medium plasticity.	
4			CL	Sandy clay, brown, damp, medium plasticity, hard.	
6	42	S-6		Some fine-grained gravel, OVM = 0ppm.	
10	16	S-10.5		Low plasticity, OVM = 0ppm.	
16	27	S-16	SP	Sand, fine- to coarse-grained and fine-grained gravel, brown, moist, medium dense, OVM = 0ppm.	
18			ML	Clayey silt, brown, moist, low plasticity, very stiff.	
22	27	S-21	CH	Silty clay, gray-green, moist, medium to high plasticity, very stiff, OVM = 0ppm.	
26	44			No sample recovered.	
28			CL	Silty clay, gray-green, moist, low to medium plasticity, very stiff.	
30				(Section continues downward)	



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LOG OF BORING B-2/MW-2
 UNOCAL Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE
P - 4

PROJECT NO. **87091-3**

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
	30	34	S-30.5	CL	Silty clay, gray-green, moist, low to medium plasticity, very stiff, OVM = 280ppm.
32					
34					
36	45	S-35.5		Green-brown, very moist, OVM = 3ppm.	
38					
40	36	S-40.5		Sandy clay, trace fine-grained gravel, brown, wet, low plasticity, OVM = 0ppm.	
42					
44					
46	33	S-45.5		OVM = 0ppm.	
48					
50	Total Depth = 48 feet.				



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LOG OF BORING B-2/MW-2

UNOCAL Station No. 5367

500 Bancroft Avenue

San Leandro, California

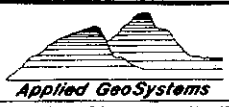
PLATE

P - 5

PROJECT NO. 87091-3

Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0			Concrete.	
		ML	Clayey silt, dark gray, slightly damp.	
2		CL	Silty clay, trace of fine-grained sand, brown, damp, low plasticity, very stiff.	
4				
6	28	S-6	Lenses of fine-grained silty sand, OVM = 0ppm.	
8				
10	16	S-11	Sand, coarse-grained and fine-grained gravel, moist, medium dense, OVM = 0ppm.	
12		ML	Clayey silt, trace fine-grained gravel, green-brown, moist, low plasticity, stiff.	
14				
16	13	S-16	OVM = 0ppm.	
18				
20	18	S-21	Silty clay, some fine-grained sand, green, moist, medium plasticity, stiff. OVM = 5ppm.	
22				
24				
26	48	S-26	Brown, low plasticity, OVM = 55ppm.	
28				
30		CL	Silty clay, brown, low plasticity.	

(Section continues downward)



41275 Mission Blvd Suite B Fremont, CA 94538-4315-1906

LOG OF BORING B-3/MW-3
 UNOCAL Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE
P - 6

PROJECT NO. **87091-3**

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
30	25	S-30.5	CL	Silty clay, brown, low plasticity, OVM = 20ppm.	
32					
34					
36	33	S-36		Trace of gravel, OVM = 365ppm.	
38					
40	17	S-40	▼ =	Wet, OVM = .10ppm.	
42					
44			ML	Clayey silt, some fine-grained sand, gray-brown, moist, low plasticity, stiff.	
46	27	S-46		OVM = 160ppm.	
48					
50				Total Depth = 48 feet.	




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LOG OF BORING B-3/MW-3
UNOCAL Station No. 5367
500 Bancroft Avenue
San Leandro, California

PLATE
P - 7

PROJECT NO. **87091-3**

Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0		MH	Clayey silt, dark brown, damp, high plasticity.	
2		CL	Sandy clay, light brown, dry, low plasticity, hard.	
4				
6	73		OVM = Oppm.	
8				
10	40		Brown-dark brown, moist, medium plasticity, OVM = Oppm.	
12				
14				
16	23	SM	Clayey sand, trace of fine-grained gravel, brown, medium dense, OVM = Oppm.	
18		CL	Silty clay, light brown, very moist, medium to high plasticity, very stiff.	
20	23		OVM = Oppm.	
22				
24				
26	43		Medium brown, hard, OVM = Oppm.	
28				
30				



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PROJECT NO. 87091-3

LOG OF BORING B-4/MW-4
 UNOCAL Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE
P - 8

Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
30	28	S-30.5		
32		SM	Silty sand, some fine-grained gravel, gray-brown, medium dense.	
34		CL	Sandy clay, fine-grained, some gravel, light brown, very moist, low to medium plasticity, very stiff.	
36	23	S-36	OVM = 0ppm.	
38				
40	27	S-40	Trace fine-grained gravel, brown, wet, OVM = 0ppm.	
42				
44				
46	33	S-45.5	Some sand, light brown, wet, low plasticity, OVM = 0ppm.	
48	Total Depth = 48 feet.			
50				



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LOG OF BORING B-4/MW-4
UNOCAL Station No. 5367
500 Bancroft Avenue
San Leandro, California

PLATE
P - 9

PROJECT NO. **87091-3**

Total depth of boring: 46-1/2 feet Diameter of boring: 8 inches Date drilled: 5-15-89
 Casing diameter: 2 inches Length: 45 feet Slot size: 0.020-inch
 Screen diameter: 2 inches Length: 20 feet Material type: Sch 40 PVC
 Drilling Company: HEW Drilling, Inc. Driller: _____
 Method Used: Hollow-Stem Auger Field Geologist: James Orr

Depth	Sample No.	BLOWS	OVM	USCS Code	Description	Well Const.
0					Asphalt (6 inches).	
2				CL	Silty clay, dark brown, damp, medium plasticity, loose.	
4				CL	Sandy clay, brown, damp, low plasticity, very stiff, remnant root holes.	
6	S-6	6 14 16	1.0			
10						
12	S-11	4 7 5	1.0		Layers of sand and fine-grained gravel.	
16	S-16	2 3 5	1.0	SP	Fine-grained sand, light brown, moist, loose, remnant root holes.	
20				ML	Clayey silt, brown, moist, medium plasticity, stiff.	
20	S-16	2 4 5	1.2			


(Section continues downward)



PROJECT NO. 87091-4

LOG OF BORING B-5/MW-5
 Unocal Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE
5

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
22				ML	Clayey silt, brown, moist, medium plasticity, stiff.	
24				ML	Sandy silt, brown, moist, low plasticity, stiff.	
26	S-26	2 6 7	1.0			
28						
30	S-31	5 10 14	1.0	CL	Silty clay, light brown, damp, medium plasticity, very stiff.	
32						
34						
36	S-36	5 10 17	0.8		Layers of saturated fine-grained sand and damp silty clay.	
38						
40	S-41	9 14 19	0.8	SC	Clayey sand, trace gravel, brown, damp, medium plasticity, hard.	
42						
44						
46	S-48	7 7 12	0.8		Layers of saturated sand and damp sandy clay.	
48					Total Depth = 46-1/2 feet.	
50						



PROJECT NO. 87091-4

LOG OF BORING B-5/MW-5

Unocal Station No. 5367
500 Bancroft Avenue
San Leandro, California

PLATE

6

Total depth of boring: 46-1/2 feet Diameter of boring: 8 inches Date drilled: 5-15-89
 Casing diameter: 2 inches Length: 45 feet Slot size: 0.020-inch
 Screen diameter: 2 inches Length: 20 feet Material type: Sch 40 PVC
 Drilling Company: HEW Drilling, Inc. Driller: Anibal
 Method Used: Hollow-Stem Auger Field Geologist: James Orr

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
0				CL	Silty clay, brown, damp, medium plasticity, very stiff, some organic material.	
2						
4						
6	S-6	5 9 12	1.2			
8						
10				SC	Clayey sand, brown-black, damp, loose.	
				SP	Gravelly sand, brown, damp, loose.	
12	S-11	6 2 3	0.0	CL	Silty clay, medium brown, moist, medium plasticity, medium stiff.	
				SP	Sand, brown, moist, medium plasticity, medium dense.	
14						
16	S-16	4 5 6	0.0			
18						
20	S-21	2 3 4	0.5	CL	Silty clay, brown, damp, medium plasticity, medium stiff, remnant root holes.	



PROJECT NO. 87091-4

LOG OF BORING B-6/MW-6
 Unocal Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE
7

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
-22				CL	Silty clay, brown, damp, medium plasticity, medium stiff, remnant root holes.	
-24						
-26	S-26	5 20 20	0.5			
-28				ML	Clayey silt, brown, damp, low plasticity, stiff, remnant root holes.	
-30						
-32	S-31	4 5 5	0.3			
-34				▼ =		
-36	S-35.5	6 11	0.3	SM	Silty sand, brown, wet, medium dense.	
-38						
-40						
-42	S-41	4 6 6	0.3	SC	Clayey sand, brown, damp, low plasticity, medium dense.	
-44						
-46	S-48	4 8 13	0.1			
-48					Total Depth = 46-1/2 feet.	
-50						



PROJECT NO. 87091-4

LOG OF BORING B-6/MW-6

Unocal Station No. 5367
500 Bancroft Avenue
San Leandro, California

PLATE

8

Total depth of boring: 44 feet Diameter of boring: 8 inches Date drilled: 2-7-90
 Casing diameter: 2 inches Length: 44 feet Slot size: 0.020-inch
 Screen diameter: 2 inches Length: 20 feet Material type: Sch 40 PVC
 Drilling Company: HEW Drilling, Inc. Driller: Tomas and Perfecto
 Method Used: Hollow-Stem Auger Field Geologist: Russell Bak

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
0				CL	Silty clay, dark brown, damp, medium to high plasticity, very stiff.	
2					Layers of sand and fine-grained gravel.	
6	S-5.5	8 14	0.2			
10	S-10.5	8 14	0.2		Sandy clay, trace gravel, brown, medium plasticity.	
16	S-16	3 10	0.2			
20	S-21	6 9 13	0			

(Section continues downward)



PROJECT NO. 87091-4

LOG OF BORING B-7/MW-7

Unocal Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE

9

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
22				CL	Sandy clay, trace gravel, brown, damp, medium plasticity, stiff to hard.	
24						
26	S-26	16 33 36	0		Increase in sand.	
28						
30		9 15 16	0		Trace sand.	
32		5 7 18	0			
34	S-33.5		0			
36	S-36	14 21 30	0		Some gray-green mottling.	
38		5 9 14	0			
40		18 34 55	0			
42	S-41		0			
44	S-43.5	20 44 45	0		Silty clay, trace sand and gravel. Total Depth = 44 feet.	
46						
48						
50						



PROJECT NO. 87091-4

LOG OF BORING B-7/MW-7

Unocal Station No. 5367
500 Bancroft Avenue
San Leandro, California

PLATE

10

Total depth of boring: 44 feet Diameter of boring: 8 inches Date drilled: 2-6-90
 Casing diameter: 2 inches Length: 44 feet Slot size: 0.020-inch
 Screen diameter: 2 inches Length: 20 feet Material type: Sch 40 PVC
 Drilling Company: HEW Drilling, Inc. Driller: Tomas and Perfecto
 Method Used: Hollow-Stem Auger Field Geologist: Russell Bak

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
0					Concrete (3 inches).	
2				CL	Silty clay, medium brown to tan, damp, medium plasticity, very stiff to hard.	
6	S-6	12 20 27	1.7		Layers of fine-grained sand and silt.	
12	S-11	10 13 20	0.8		Tan to brown, moist.	
16	S-16	5 19 13	1.1		Low plasticity.	
20	S-21	8 13 15	0.4			

(Section continues downward)



PROJECT NO. 87091-4

LOG OF BORING B-8/MW-8
 Unocal Station No. 5367
 500 Bancroft Avenue
 San Leandro, California

PLATE
 11

Depth	Sample No.	Blows	OVM	USCS Code	Description	Well Const.
-22				CL	Silty clay, tan to brown, moist, low plasticity, very stiff to hard.	
-24						
-26	S-26	8 28 32	1.1			
-28						
-30		8 13				
-32	S-31	18	6.3	ML	Silt, tan to brown, damp, low to medium plasticity, very dense, noticeable odor.	
-34						
-36	S-36	12 28 50	10.1	CL	Silty clay, trace rock fragments, brown, damp, medium plasticity, hard, trace mottling.	
-38		15 25				
-38.5	S-38.5	35	3.1	ML	Sandy silt, trace sand and gravel, brown, moist, low plasticity, hard, trace mottling.	
-40		20 25				
-42	S-41	38	1.3			
-42		9		GC	Clayey gravel, some sand, gray-brown, wet, dense.	
-44	S-43.5	11 20	3	CL	Sandy clay, trace gravel, brown, damp, low to medium plasticity, very stiff.	
-44					Total Depth = 44 feet.	
-46						
-48						
-50						



PROJECT NO. 87091-4

LOG OF BORING B-8/MW-8

Unocal Station No. 5367
500 Bancroft Avenue
San Leandro, California

PLATE

12

GeoResearch

FIELD LOG OF BORING

BORING/WELL I.D. MW9
SHEET 1 OF 2

PROJECT NAME UNOCAL SAN LEANDRO		PROJECT NUMBER 9480600100	ELEVATION AND DATUM NA	REFERENCE NA
DRILLING COMPANY BAYLAND DRILLING		DRILLER KURT VOSS	DATE & TIME STARTED 12/16/94 11:20 AM	DATE & TIME COMPLETED 12/16/94
DRILLING EQUIPMENT METHOD CME-75	DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> SLANT _____ DEG. FROM VERT		TOTAL DEPTH OF BORING 45 FT.	
SIZE AND TYPE OF BIT 8" HOLLOW STEM AUGER		TOTAL NO. OF SAMPLES 1	BULK	SS 1
DRILLING FLUID NONE		WATER LEVEL	FIRST	AFTER HOURS
SAMPLER TYPECAL MOD DRIVING WT. 130 DROP 30"		HYDROGEOLOGIST/DATE MICHAEL GUY 12/16/94		CHECKED BY/DATE

DEPTH (FEET)	WELL CONST		OVA (PPM)	SAMPLES			GRAPH. LOG	SOIL CLASS (USCS)	DESCRIPTION OF MATERIALS	REMARKS
	CSG	FILL		NO.	TYPE	BLOWS /6"				
0							AF CL	ASPHALT SILTY CLAY, moderate yellowish-brown, stiff, moist, low to medium plasticity, minor fine to coarse sand. Becomes low plasticity at 4.5 ft.		
5										
10										
15										
20										
25									Becomes clay between 23-25 ft. and	

FIELD LOG OF BORING

BORING/WELL I.D. MW9
 SHEET 2 OF 2

PROJECT NAME UNOCAL SAN LEANDRO	PROJECT NUMBER 9480600100	HYDROGEOLOGIST MICHAEL GUY 12/16/94	CHECKED BY/DATE
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DEPTH (FEET)	WELL CONST		OVA (PPM)	SAMPLES			GRAPH. LOG	SOIL CLASS (USCS)	DESCRIPTION OF MATERIALS	REMARKS
	CSG	FILL		NO.	TYPE	BLOWS /6"				
0			0					CL	SILTY CLAY, yellowish-brown, stiff, moist, low plasticity, minor to coarse sand.	
30						2 3 5		ML	SILT, moderate yellowish-brown, stiff, stiff	
35										
40										
45										Boring terminated at 4 ft.

FIELD LOG OF BORING

 BORING/WELL I.D. MW10

 SHEET 2 OF 2

PROJECT NAME UNOCAL SAN LEANDRO	PROJECT NUMBER 9480600100	HYDROGEOLOGIST MICHAEL GUY 4/6/95	CHECKED BY/DATE WARREN GROSS
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DEPTH (FEET)	WELL CONST		OVA (PPM)	SAMPLES			GRAPH. LOG	SOIL CLASS (USCS)	DESCRIPTION OF MATERIALS	REMARKS
	CSG	FILL		NO.	TYPE	BLOWS /6"				
30 35 40 45							CL		Boring terminated 45 ft bgs.	