

RECEIVED

By dehloptoxic at 8:45 am, Nov 29, 2006

C A M B R I A

November 17, 2006

Mr. Barney Chan
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway Suite 250
Alameda, California 94502-6577

Re: **Monitoring Well Installation, Modification and Destruction Report**

Former Chevron Station 9-0260
21995 Foothill Blvd.
Hayward, California
Cambria Project No. 31J-1950



Dear Mr. Chan:

On behalf of Chevron Environmental Management Company (Chevron), Cambria Environmental Technology, Inc. (Cambria) presents this *Monitoring Well Installation, Modification and Destruction Report* for the site referenced above (Figure 1). The following work was performed onsite: installation of one groundwater monitoring well, installation of one groundwater monitoring and remediation well, deepening of five groundwater monitoring and remediation wells, destruction of thirteen remediation wells, and destruction of two temporary wells. The site background and a summary of Cambria's well installation, modification and destruction activities are presented below.

SITE BACKGROUND

The site is a former Chevron gasoline service station located on the northwest corner of the intersection of Foothill Blvd and Rex Road in Hayward, California. The site and facilities were purchased by Chevron from USA Petroleum in 1985 and this site is currently a vacant fenced lot. Commercial properties are located north, east and south of the site. Residential properties are located west (down-gradient) of the site.

SITE GEOLOGY/HYDROGEOLOGY

Local topography is flat and the site is approximately 100 ft above mean sea level (Figure 1). The site and vicinity are underlain by Quaternary alluvium consisting mainly of unconsolidated stream and basin deposits ranging from clay to cobble-sized. Unconsolidated sediments beneath the site and site vicinity consist primarily of clayey silts and silty clays to an approximate depth of 15 feet below grade (fbg). Ranging from approximately 15 to 20 fbg is a several-foot-thick sand unit, which is underlain by additional silts and clays. From approximately 35 to 43 fbg, there is another sandy unit which varies in thickness from 3-5 feet, which is underlain by silts and

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
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Emeryville, CA 94608
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clays to the maximum depth explored by cone penetration testing. Subsurface lithology is consistent as far downgradient as well MW-18.

Groundwater averages about 15 fbg, with several feet of fluctuation annually. Groundwater historically flows toward the southwest at an average gradient of 0.03. Weiss Associates concluded that concrete-lined San Lorenzo Creek is a hydraulic barrier to westward and southwestward groundwater flow from the site.

WELL INSTALLATION, MODIFICATION AND DESTRUCTION

Permits: Alameda County Public Works Agency Permits W2006-0311 and W2006-0312 (Attachment A).

Work Dates: May 3-5 and 8, 2006.

Drilling Company: Gregg Drilling and Testing, Inc. of Martinez, CA (C-57 #485165)

Well Installations: Two wells were installed onsite. Groundwater monitoring well MW-19 was installed in the deeper sands to a total depth of 45 fbg. This well was screened within the deeper sands, from 35-45 fbg, to investigate impact that was identified by previous CPT borings. Remediation well DVE-20 was installed to a total depth of 28 fbg and screened from 10-25 fbg to accommodate the installation of a new remediation system in September 2006 (Figure 2).

Well Modifications: Groundwater monitoring wells MW-5, MW-11, MW-12 and remediation wells DVE-9 and DVE-12 were deepened to a total depth of 28 fbg and screened from 10-25 fbg to accommodate the installation of a new remediation system in September 2006 (Figure 2).

Well Destructions: Remediation wells DVE-1 through DVE-8, DVE-10, DVE-11, DVE-13, DVE-17 through DVE-19 and temporary wells TMP-1 and TMP-2 were properly destroyed by pressure grouting (Figure 2).

Well Construction: See boring logs (Attachment B)

Soil Sampling Technique: Cambria collected soil samples at approximately 5 foot intervals from each boring. Samples collected above 8 fbg were collected as disturbed samples in brass sample tubes, sealed with Teflon tape and plastic end caps. Undisturbed samples below 8 fbg were collected in a brass sample tube and sealed using Teflon strips and plastic end caps. All samples were labeled, placed on ice, and transported to Lancaster Laboratories following prescribed chain of custody procedures.

Laboratory Analysis: Soil samples were analyzed for:

- Total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015 and,
- Methyl tertiary butyl ether (MTBE), benzene, toluene, ethylbenzene, and total xylenes (BTEX), di-Isopropyl ether (DIPE), ethyl t-butyl ether (ETBE), t-Amyl methyl ether (TAME), t-Butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane by EPA Method 8260.

Laboratory analytic results for soil are presented in Attachment C.



Analytical Results for Soil

TPHg was detected at maximum concentrations of 860 mg/kg at 15.5 fbg in MW-19. MTBE was detected at maximum concentrations of 0.001 mg/kg at 20.5 fbg in this well. Ethylbenzene and total xylenes were detected at 15.5 fbg at 0.22 mg/kg and 2.1 mg/kg, respectively. TBA was detected at maximum concentration of 0.046 mg/kg at 30.5 fbg. No benzene was detected in any samples from MW-19.

TPHg was not detected in any soil samples collected from DVE-20. MTBE was detected at maximum concentrations of 0.001 milligrams per kilograms (mg/kg) at 10.5 and 20.5 fbg in DVE-20. Toluene and total xylenes were detected at 0.001 mg/kg each at 6 fbg. No benzene was detected in any of the DVE-20 samples. Soil analytic results are presented in Table 1.

CLOSING

We appreciate this opportunity to work with you on this project. Please contact Charlotte Evans at (510) 420-3351 or Robert Foss at (510) 420-3348 with any questions or comments.

Sincerely,

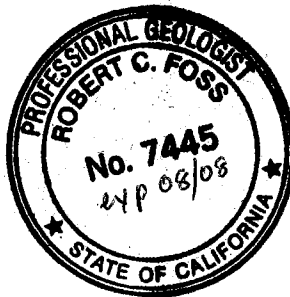
Cambria Environmental Technology, Inc.



Charlotte Evans
Senior Staff Geologist



Robert Foss, R.G.
Associate Geologist



I:\9-0260 Hayward\Remediation 2006\Well Modifications\9-0260 Well Modifications report 07-06.doc

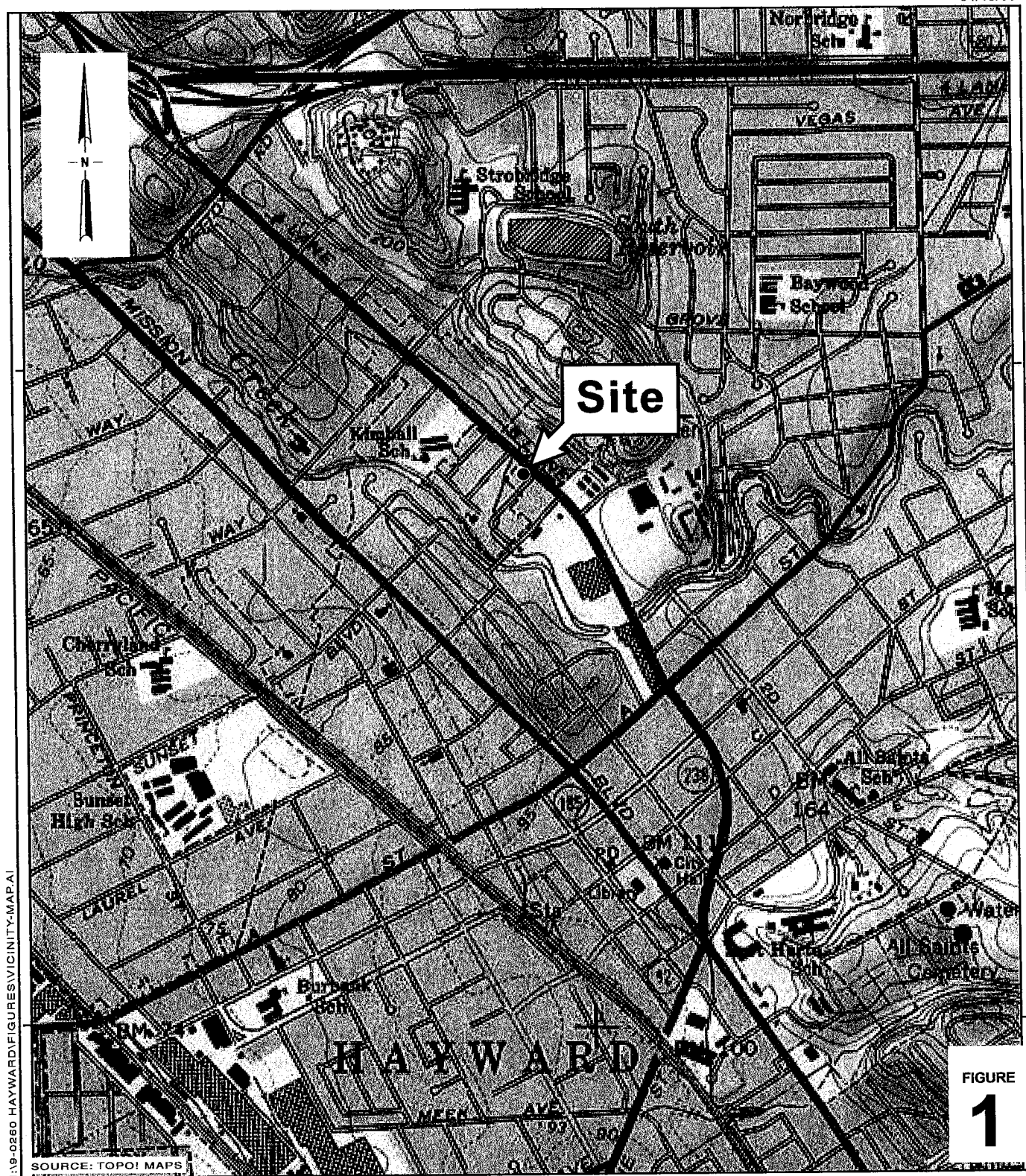
Figures 1 – Site Vicinity Map
 2 – Site Plan

Tables 1 – Soil Analytic Results

Attachments: A – Alameda County Public Works Agency Permits
 B – Boring Logs
 C – Analytic Results

cc: Satya Sinha, Chevron Environmental Management Company, P.O. Box 6004,
 San Ramon, CA 94583
 Mr. Barney Chan, Alameda County Environmental Health Dept. 1131 Harbor
 Bay Parkway, Alameda, CA 94702
 Mr. Hugh Murphy, Hayward Fire Department, 777 B Street, Hayward, CA 94541

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0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Chevron Station 9-0260



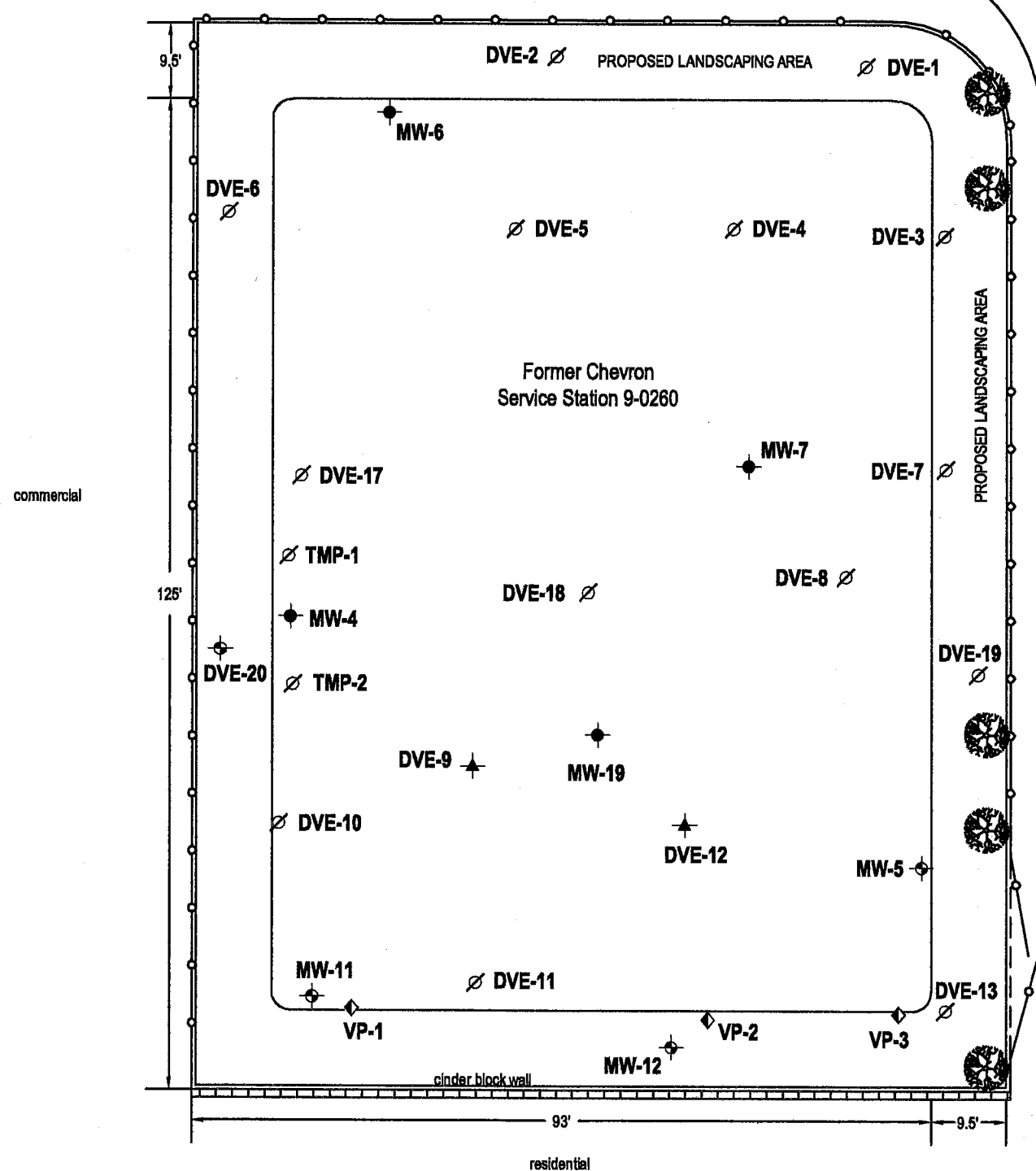
Vicinity Map

21995 Foothill Boulevard

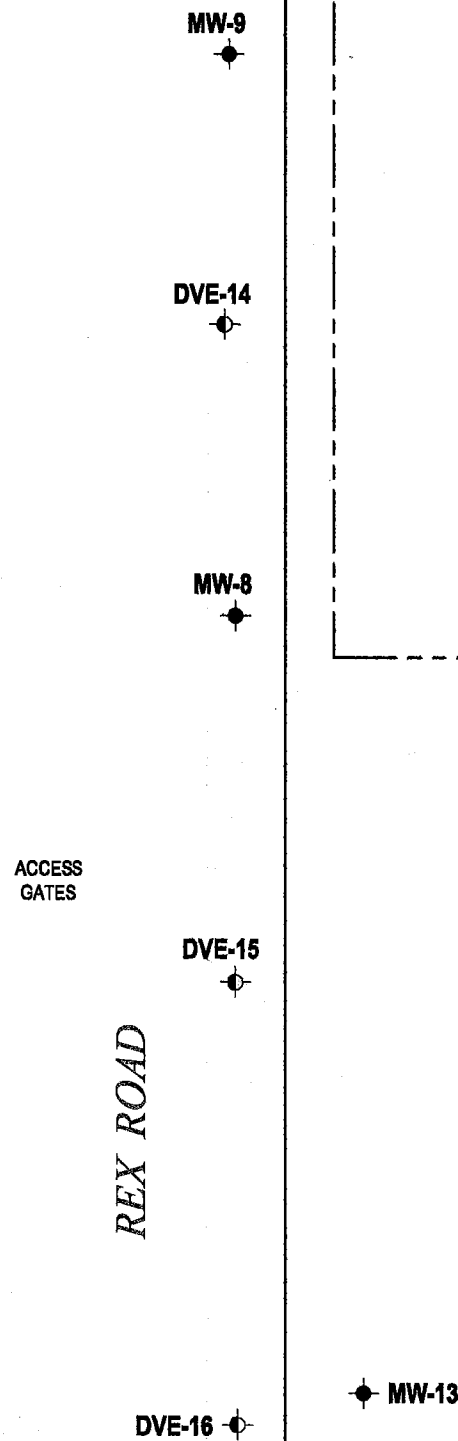
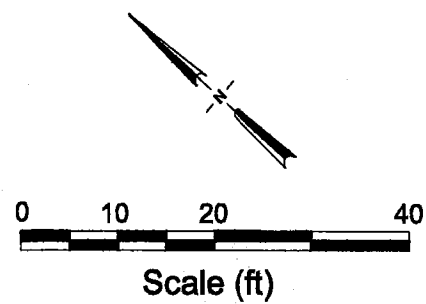
Hayward, California

C A M B R I A

FOOTHILL BOULEVARD



EXPLANATION	
MW-1	Monitoring well location
MW-5	Monitoring well to be used for DPE
DVE-9	Terra-Vac DVE well to be deepened and converted to DPE well
DVE-1	Terra-Vac inactive DVE well location
VP-1	Vapor probe location
DVE-1	Destroyed well



Proposed Treatment System
Extraction Wells



Former Chevron Station 9-0260
21995 Foothill Boulevard
Hayward, California

FIGURE
2

CAMBRIA

Table 1. Analytic Results for Soil - Former Chevron Station 9-0260, 21995 Foothill Blvd., Hayward, California

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	B	T	E	X	MTBE	DIPE	TAME	TBA	ETBE	1,2 DCA	EDB
Concentrations reported in milligrams per kilogram (mg/kg)														
MW-19	05/08/06	6.0	<1.0	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
MW-19	05/08/06	10.5	1.2	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	0.040	<0.001	<0.001	<0.001
MW-19	05/08/06	15.5	860	<0.001	<0.001	0.22	2.1	<0.0005	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
MW-19	05/08/06	20.5	2.3	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.022	<0.001	<0.001	<0.001
MW-19	05/08/06	25.5	<1.0	<0.001	<0.001	<0.001	<0.001	0.0007	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
MW-19	05/08/06	30.5	2.3	<0.001	<0.001	<0.001	<0.001	0.0006	<0.001	<0.001	0.046	<0.001	<0.001	<0.001
MW-19	05/08/06	35.0	<1.0	<0.001	<0.001	<0.001	<0.001	0.0008	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
MW-19	05/08/06	40.5	<1.0	<0.001	<0.001	<0.001	<0.001	0.0006	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
MW-19	05/08/06	45.5	<1.0	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
DVE-20	05/08/06	6.0	<1.0	<0.001	0.001	<0.001	0.001	0.0008	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
DVE-20	05/08/06	10.5	<1.0	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
DVE-20	05/08/06	20.5	<1.0	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001
DVE-20	05/08/06	25.5	<1.0	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M.

Benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tertiary butyl ether (MTBE), di-Isopropyl ether (DIPE), t-Amyl methyl ether (TAME), t-Butyl alcohol (TBA),

Ethyl t-butyl ether (ETBE), 1,2-Dichloroethane (1,2 DCA), and 1,2-Dibromoethane (EDB) by EPA Method 8260B.

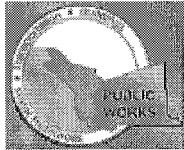
<x = Not detected above method detection limit

fbg = feet below grade

APPENDIX A

Alameda County Public Works Agency Permits

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 04/26/2006 **By** jamesy
Permits Issued: W2006-0311 to W2006-0312

Receipt Number: WR2006-0190
Permits Valid from 05/03/2006 **to** 05/10/2006

Application Id: 1146071278160
Site Location: 21995 Foothill Blvd, Hayward, CA 94541
Project Start Date: 05/03/2006

City of Project Site: Hayward

Completion Date: 05/10/2006

Applicant: Cambria - Charlotte Evans
5900 Hollis St. #A, Emeryville, CA 94608

Phone: 510-420-3351

Property Owner: Chevron Products Co.
PO Box 6012, San Ramon, CA 94583

Phone: --

Client: ** same as Property Owner **

Total Due: \$500.00
Total Amount Paid: \$500.00
Paid By: CHECK **PAID IN FULL**

Payer Name : Cambria

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 1 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: auger

Work Total: \$300.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2006-0311	04/26/2006	08/01/2006	MW-19	8.00 in.	2.00 in.	5.00 ft	45.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained.
4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
5. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to

Alameda County Public Works Agency - Water Resources Well Permit

starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

10. DVE-20 shall have the same, except for a min 2 foot seal.

Remediation Well Destruction-Extraction - 15 Wells

Driller: Gregg Drilling - Lic #: 485165 - Method: auger

Work Total: \$200.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2006-0312	04/26/2006	08/01/2006	DVE1	10.00 in.	4.00 in.	7.50 ft	15.00 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE10	10.00 in.	4.00 in.	6.00 ft	14.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE11	10.00 in.	4.00 in.	7.00 ft	14.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE13	10.00 in.	4.00 in.	6.50 ft	14.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE17	10.00 in.	4.00 in.	7.00 ft	20.00 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE18	10.00 in.	4.00 in.	6.00 ft	20.00 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE19	10.00 in.	4.00 in.	6.00 ft	19.00 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE2	10.00 in.	4.00 in.	6.50 ft	14.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE20	10.00 in.	4.00 in.	0.00 ft	25.00 ft	NEW	WELL	
W2006-0312	04/26/2006	08/01/2006	DVE3	10.00 in.	4.00 in.	5.50 ft	14.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE4	10.00 in.	4.00 in.	5.00 ft	13.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE5	10.00 in.	4.00 in.	3.50 ft	14.00 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE6	10.00 in.	4.00 in.	4.50 ft	14.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE7	10.00 in.	4.00 in.	5.50 ft	14.50 ft	DES		
W2006-0312	04/26/2006	08/01/2006	DVE8	10.00 in.	4.00 in.	6.00 ft	13.50 ft	DES		

Specific Work Permit Conditions

Alameda County Public Works Agency - Water Resources Well Permit

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
 2. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.
 3. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
 4. Pressure Grout with Cement (Less than 30 ft in depth)
 5. Remove well box.
 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
 7. Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.
-

APPENDIX B


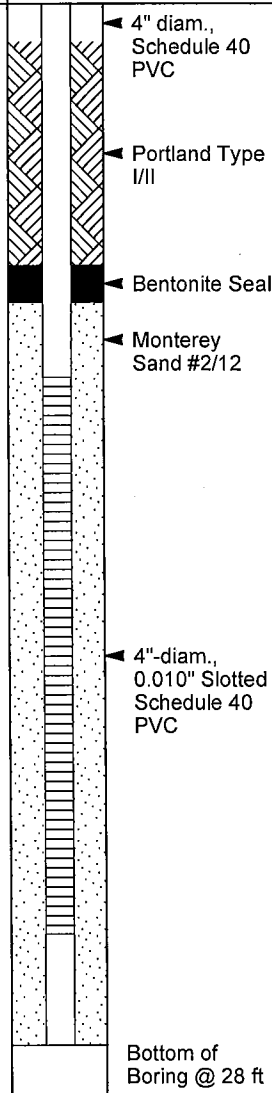
Boring Logs



Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Company BORING/WELL NAME MW-5
JOB/SITE NAME 9-0260 DRILLING STARTED 08-May-06
LOCATION 21995 Foothill Boulevard, Hayward, CA DRILLING COMPLETED 08-May-06
PROJECT NUMBER 31J-1915 WELL DEVELOPMENT DATE (YIELD) NA
DRILLER Gregg Drilling GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER 10-inch SCREENED INTERVAL NA; NA
LOGGED BY Kamran Javandel/Charlotte Evans DEPTH TO WATER (First Encountered) 13.0 ft (20-Jan-88) ∇
REVIEWED BY B. Foss PG #7445 DEPTH TO WATER (Static) NA ▼
REMARKS

TPH _g (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
						MW-5 was deepened in the same location. Originally MW-5 was a 4-inch diameter monitoring well 19 feet deep, screened from 6 to 19 feet below grade. MW-5 was overdrilled using 10-inch diameter hollow stem augers to a depth of 28 feet and the original 4-inch diameter well was removed. MW-5 was then constructed using 4-inch diameter, 0.010-inch Slotted Schedule 40 PVC and screened from 10 to 25 feet below grade.	28.0	



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Emeryville, CA 94608
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Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Company BORING/WELL NAME MW-11
JOB/SITE NAME 9-0260 DRILLING STARTED 08-May-06
LOCATION 21995 Foothill Boulevard, Hayward, CA DRILLING COMPLETED 08-May-06
PROJECT NUMBER 31J-1915 WELL DEVELOPMENT DATE (YIELD) NA
DRILLER Gregg Drilling GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER 10-inch SCREENED INTERVAL NA; NA
LOGGED BY Kamran Javandel/Charlotte Evans DEPTH TO WATER (First Encountered) 15.5 ft (06-Jun-89)
REVIEWED BY B. Foss PG #7445 DEPTH TO WATER (Static) NA
REMARKS _____

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
						MW-11 was deepened in the same location. Originally MW-11 was a 4-inch diameter monitoring well 19 feet deep, screened from 6 to 19 feet below grade. MW-11 was overdrilled using 10-inch diameter hollow stem augers to a depth of 28 feet and the original 4-inch diameter well was removed. MW-11 was then constructed using 4-inch diameter, 0.010-inch Slotted Schedule 40 PVC and screened from 10 to 25 feet below grade.		

WELL LOG (COAXIAL/TPHG) : 9-0260 HAYWARD REMEDIATION 2006WELL MODIFICATIONS 9-0260 BORING LOGS 05-06.GPJ DEFAULT.GDT 11/27/06



Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Company BORING/WELL NAME MW-12
JOB/SITE NAME 9-0260 DRILLING STARTED 08-May-06
LOCATION 21995 Foothill Boulevard, Hayward, CA DRILLING COMPLETED 08-May-06
PROJECT NUMBER 31J-1915 WELL DEVELOPMENT DATE (YIELD) NA
DRILLER Gregg Drilling GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER 10-inch SCREENED INTERVAL NA; NA
LOGGED BY Kamran Javandel/Charlotte Evans DEPTH TO WATER (First Encountered) 15.5 ft (07-Jun-89)
REVIEWED BY B. Foss PG #7445 DEPTH TO WATER (Static) NA
REMARKS _____

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
						MW-12 was deepened in the same location. Originally MW-12 was a 4-inch diameter monitoring well 19 feet deep, screened from 6 to 19 feet below grade. MW-12 was overdrilled using 10-inch diameter hollow stem augers to a depth of 28 feet and the original 4-inch diameter well was removed. MW-12 was then constructed using 4-inch diameter, 0.010-inch Slotted Schedule 40 PVC and screened from 10 to 25 feet below grade.		

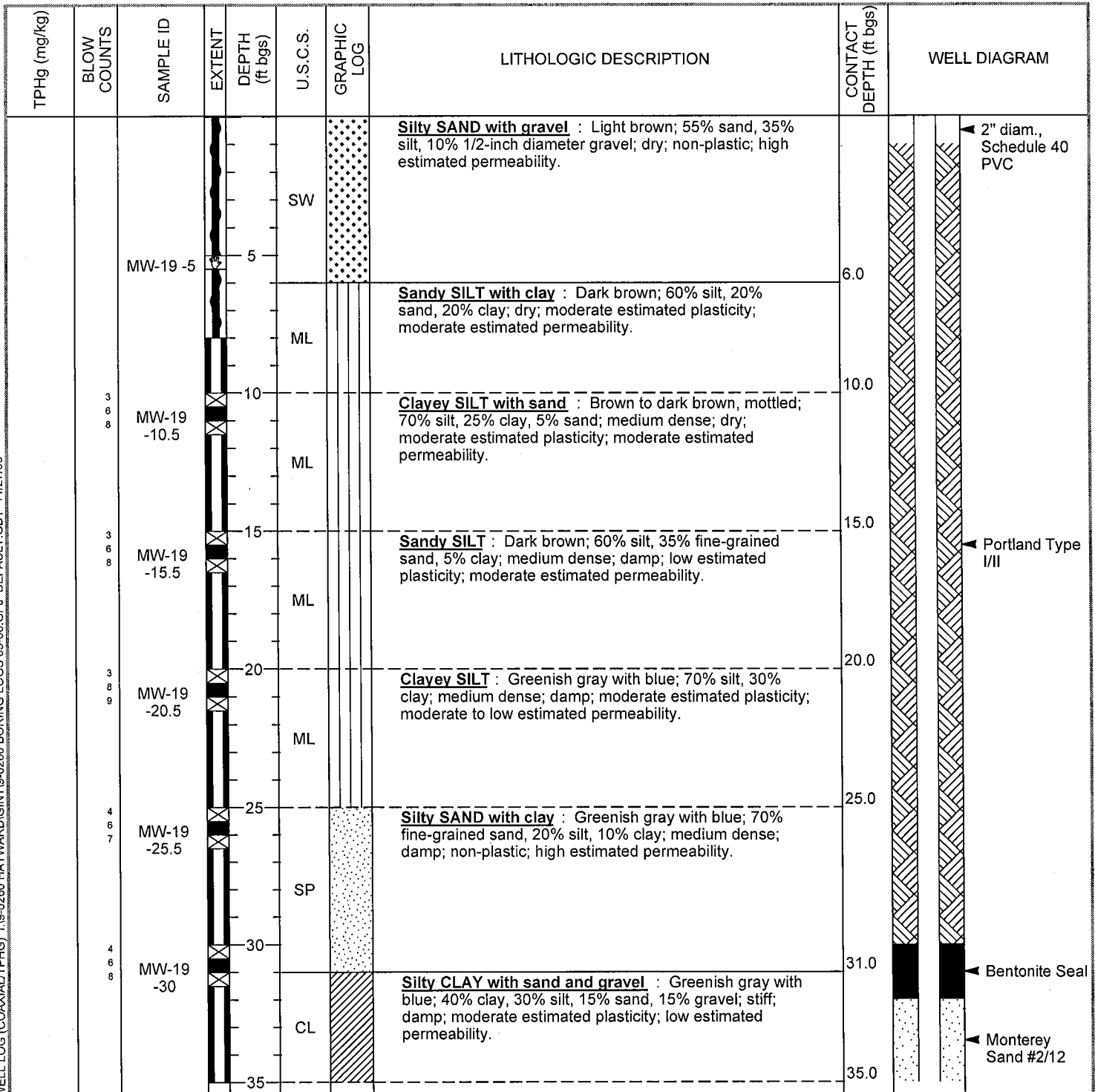
WELL LOG (COAXIAL/TPHG) I:9-0260 HAYWARD/REMEDIATION 2006WELL MODIFICATIONS9-0260 BORING LOGS 05-06.GPJ DEFAULT.GDT 11/27/06



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Emeryville, CA 94608
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Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	MW-19
JOB/SITE NAME	9-0260	DRILLING STARTED	08-May-06
LOCATION	21995 Foothill Boulevard, Hayward, CA	DRILLING COMPLETED	08-May-06
PROJECT NUMBER	31J-1915	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	8-inch	SCREENED INTERVAL	NA; NA
LOGGED BY	Kamran Javandel/Charlotte Evans	DEPTH TO WATER (First Encountered)	40.0 ft (08-May-06)
REVIEWED BY	B. Foss PG #7445	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 8 fbg		



Continued Next Page

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WELL LOG (COAXIAL/TPHG) 19-0260 HAYWARD\GINT9-0260 BORING LOGS 05-06.GPJ DEFAULT GDT 11/27/06



Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Company BORING/WELL NAME MW-19
JOB/SITE NAME 9-0260 DRILLING STARTED 08-May-06
LOCATION 21995 Foothill Boulevard, Hayward, CA DRILLING COMPLETED 08-May-06

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
	4 7 11	MW-19 -35			SP		Silty SAND : Greenish gray with blue; 70% fine-grained sand, 30% silt; medium dense; moist; non-plastic; high estimated permeability.		
	7 12 13	MW-19 -40.5		40	SP		Silty SAND : Greenish gray; 70% fine-grained sand, 20% silt, 5% clay, 5% sand; medium dense; wet; non-plastic; high estimated permeability.	40.0	
	7 9 13	MW-19 -45.5		45	ML		Sandy SILT with clay : Greenish gray; 65% silt, 20% very fine-grained sand, 10% clay, 5% gravel; medium dense; moderate estimated plasticity; moderate estimated permeability.	45.0 46.5	Bottom of Boring @ 45 ft



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Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Company BORING/WELL NAME DVE-9
JOB/SITE NAME 9-0260 DRILLING STARTED 08-May-06
LOCATION 21995 Foothill Boulevard, Hayward, CA DRILLING COMPLETED 08-May-06
PROJECT NUMBER 31J-1915 WELL DEVELOPMENT DATE (YIELD) NA
DRILLER Gregg Drilling GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER 10-inch SCREENED INTERVAL NA; NA
LOGGED BY Kamran Javandel/Charlotte Evans DEPTH TO WATER (First Encountered) 14.5 ft (17-Jul-97)
REVIEWED BY B. Foss PG #7445 DEPTH TO WATER (Static) NA
REMARKS _____

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				5 10 15 20 25			DVE-9 was deepened in the same location. Originally DVE-9 was a 4-inch diameter remediation well 13 feet deep, screened from 8 to 13 feet below grade. DVE-9 was overdrilled using 10-inch diameter hollow stem augers to a depth of 28 feet and the original 4-inch diameter well was removed. MW-5 was then constructed using 4-inch diameter, 0.010-inch Slotted Schedule 40 PVC and screened from 10 to 25 feet below grade.	 28.0	<p>4" diam., Schedule 40 PVC Portland Type I/II Bentonite Seal Monterey Sand #2/12 4"-diam., 0.010" Slotted Schedule 40 PVC Bottom of Boring @ 28 ft</p>

WELL LOG (COAXIAL/TPHG) I:9-0260 HAYWARDREMEDIATION 2006WELL MODIFICATIONS9-0260 BORING LOGS 05-06.GPJ DEFAULT GDT 11/27/06



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Emeryville, CA 94608
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Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME Chevron Environmental Management Company BORING/WELL NAME DVE-12
JOB/SITE NAME 9-0260 DRILLING STARTED 08-May-06
LOCATION 21995 Foothill Boulevard, Hayward, CA DRILLING COMPLETED 08-May-06
PROJECT NUMBER 31J-1915 WELL DEVELOPMENT DATE (YIELD) NA
DRILLER Gregg Drilling GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER 10-inch SCREENED INTERVAL NA; NA
LOGGED BY Kamran Javandel/Charlotte Evans DEPTH TO WATER (First Encountered) 14.5 ft (17-Jul-97)
REVIEWED BY B. Foss PG #7445 DEPTH TO WATER (Static) NA

REMARKS _____

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							DVE-12 was deepened in the same location. Originally DVE-12 was a 4-inch diameter remediation well 13 feet deep, screened from 8 to 13 feet below grade. DVE-12 was overdrilled using 10-inch diameter hollow stem augers to a depth of 28 feet and the original 4-inch diameter well was removed. DVE-12 was then constructed using 4-inch diameter, 0.010-inch Slotted Schedule 40 PVC and screened from 10 to 25 feet below grade.	 28.0	<p>4" diam., Schedule 40 PVC Portland Type I/II Bentonite Seal Monterey Sand #2/12 4"-diam., 0.010" Slotted Schedule 40 PVC Bottom of Boring @ 28 ft</p>

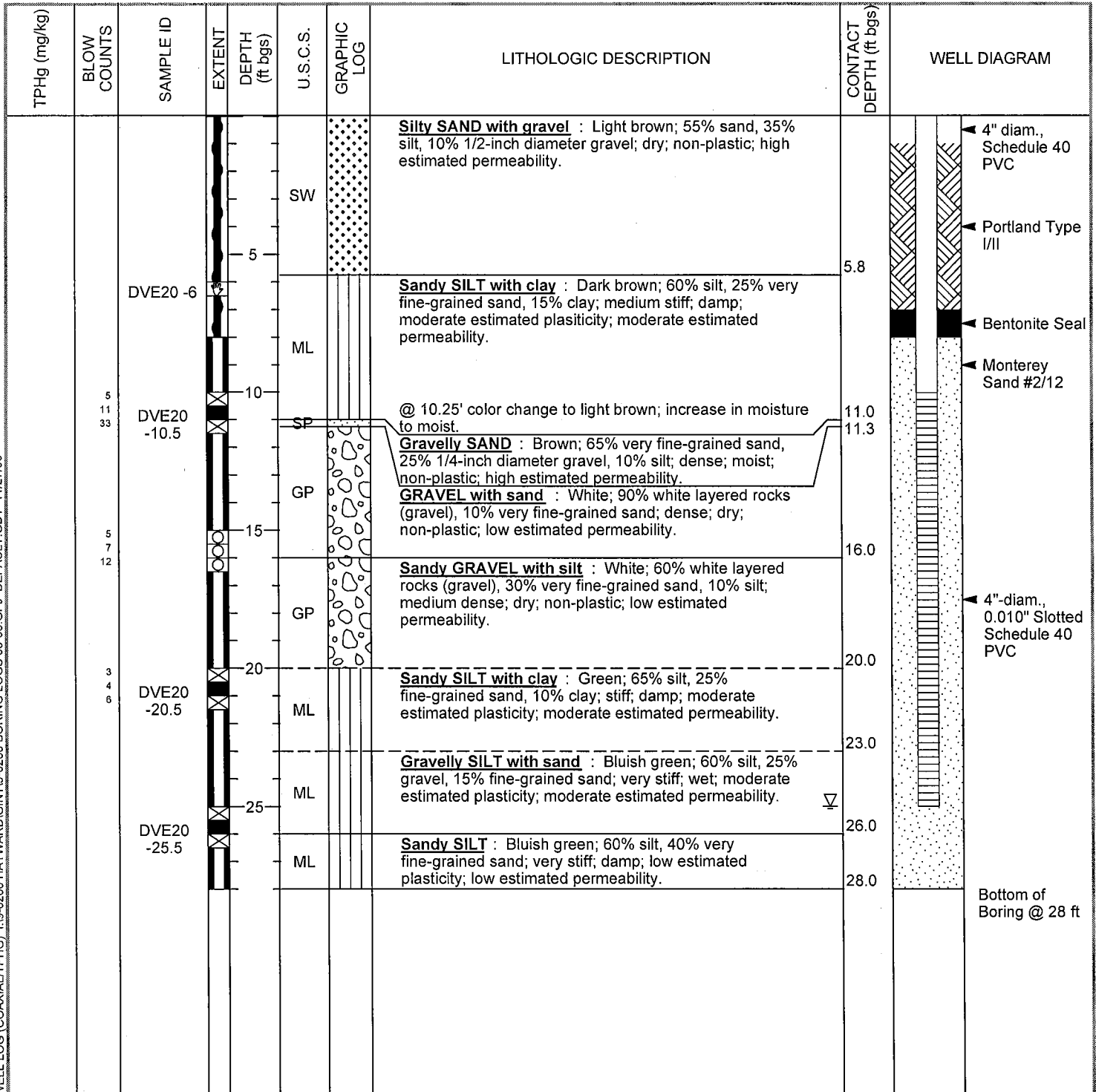
WELL LOG (COAXIAL/TPHG) I:9-0260 HAYWARD/REMEDIATION 2006WELL MODIFICATIONS:9-0260 BORING LOGS 05-06 GPJ DEFAULT.GDT 11/27/06



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Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	DVE20
JOB/SITE NAME	9-0260	DRILLING STARTED	08-May-06
LOCATION	21995 Foothill Boulevard, Hayward, CA	DRILLING COMPLETED	08-May-06
PROJECT NUMBER	31J-1915	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10-inch	SCREENED INTERVAL	NA; NA
LOGGED BY	Kamran Javandel/Charlotte Evans	DEPTH TO WATER (First Encountered)	25.0 ft (08-May-06) ▽
REVIEWED BY	B. Foss PG #7445	DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 8 fbg		



WELL LOG (COAXIAL/TPH) 1:9-0260 HAYWARD/GINT9-0260 BORING LOGS 05-06.GPJ DEFAULT.GDT 11/27/06

APPENDIX C

Analytic Results



Analysis Report

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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 988933. Samples arrived at the laboratory on Wednesday, May 10, 2006. The PO# for this group is 0015006480 and the release number is INGLIS.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
DVE20-S-6-060508	Grab Soil	4768146
DVE20-S-10.5-060508	Grab Soil	4768147
DVE20-S-20.5-060508	Grab Soil	4768148
DVE20-S-25.5-060508	Grab Soil	4768149
MW-19-S-6-060508	Grab Soil	4768150
MW-19-S-10.5-060508	Grab Soil	4768151
MW-19-S-15.5-060508	Grab Soil	4768152
MW-19-S-20.5-060508	Grab Soil	4768153
MW-19-S-25.5-060508	Grab Soil	4768154
MW-19-S-30.5-060508	Grab Soil	4768155
MW-19-S-35-060508	Grab Soil	4768156
MW-19-S-40.5-060508	Grab Soil	4768157
MW-19-S-45.5-060508	Grab Soil	4768158

ELECTRONIC Cambria Environmental
COPY TO

Attn: Bob Foss



Analysis Report

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Questions? Contact your Client Services Representative
Angela M Miller at (717) 656-2300

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Robin C. Runkle".

Robin C. Runkle
Senior Specialist



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. SW 4768146

DVE20-S-6-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 DVE-20
Collected: 05/08/2006 10:44 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

D20-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.		1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.0008	0.0005		mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001		mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001		mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001		mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020		mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005		mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001		mg/kg	0.99
05466	Toluene	108-88-3	0.001	0.001		mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001		mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001		mg/kg	0.99
06301	Xylene (Total)	1330-20-7	0.001	0.001		mg/kg	0.99
	The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.						

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/16/2006 21:29	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/16/2006 22:11	Lauren C Marzario	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/16/2006 14:46	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:18	Eric L Vera	n.a.



Analysis Report

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Lancaster Laboratories Sample No. SW 4768147

DVE20-S-10.5-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 DVE-20
Collected: 05/08/2006 10:52 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

D2010

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	Units	Dilution Factor
				Method Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.001	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1
The GC/MS volatile internal standard peak areas were outside the QC limits for both the initial analysis and the re-analysis. The values reported here are from the initial analysis of the sample.						

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/16/2006 23:20	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/16/2006 12:33	Stephanie A Selis	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/16/2006 00:43	Stephanie A Selis	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:27	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768148

DVE20-S-20.5-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 DVE-20
Collected: 05/08/2006 11:10 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

D2020

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.		1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.001	0.0005		mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001		mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001		mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001		mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020		mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005		mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001		mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001		mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001		mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001		mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001		mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/17/2006 01:11	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/16/2006 23:00	Lauren C Marzario	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/16/2006 14:48	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:30	Eric L Vera	n.a.



Analysis Report

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Lancaster Laboratories Sample No. SW 4768149

DVE20-S-25.5-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 DVE-20
Collected: 05/08/2006 11:17 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

D2025

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
01725	TPH-GRO - Soils	n.a.	N.D.	Detection Limit 1.0	mg/kg	25
The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/17/2006 01:48	Linda C Pape	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 17:32	Parker D Lindstrom	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:01	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:33	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768150

MW-19-S-6-060508

Grab

Soil

Facility# 90260

CETR

21995 Foothill-Hayward

T0600100315

MW-19

Collected: 05/08/2006 13:56

by CE

Account Number: 10880

Submitted: 05/10/2006 09:30

Reported: 05/23/2006 at 13:19

Discard: 06/23/2006

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

M19-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 15:13	K. Robert Caulfeild-James	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 17:55	Parker D Lindstrom	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:03	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:35	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768151

MW-19-S-10.5-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 MW-19
Collected: 05/08/2006 14:04 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1910

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	1.2		1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005		mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001		mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001		mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001		mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	0.040	0.020		mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005		mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001		mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001		mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001		mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001		mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001		mg/kg	0.99

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 15:49	K. Robert Caulfeild-James	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 18:18	Parker D Lindstrom	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:05	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:38	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768152

MW-19-S-15.5-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 MW-19
Collected: 05/08/2006 14:12 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1915

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	860.		200.	mg/kg	5000
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.062		mg/kg	123.76
02017	di-Isopropyl ether	108-20-3	N.D.	0.12		mg/kg	123.76
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.12		mg/kg	123.76
02019	t-Amyl methyl ether	994-05-8	N.D.	0.12		mg/kg	123.76
02020	t-Butyl alcohol	75-65-0	N.D.	2.5		mg/kg	123.76
05460	Benzene	71-43-2	N.D.	0.062		mg/kg	123.76
05461	1,2-Dichloroethane	107-06-2	N.D.	0.12		mg/kg	123.76
05466	Toluene	108-88-3	N.D.	0.12		mg/kg	123.76
05471	1,2-Dibromoethane	106-93-4	N.D.	0.12		mg/kg	123.76
05474	Ethylbenzene	100-41-4	0.22	0.12		mg/kg	123.76
06301	Xylene (Total)	1330-20-7	2.1	0.12		mg/kg	123.76

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 16:26	K. Robert Caulfeild-James	5000
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/17/2006 00:45	Lauren C Marzario	123.76
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/16/2006 20:57	Lauren C Marzario	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:43	Eric L Vera	n.a.



Analysis Report

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Lancaster Laboratories Sample No. SW 4768153

MW-19-S-20.5-060508 Grab Soil
Facility# 90260 CETR

21995 Foothill-Hayward T0600100315 MW-19

Collected: 05/08/2006 14:20 by CE Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1920

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	2.3		2.0	mg/kg	50
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.001	0.0005		mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001		mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001		mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001		mg/kg	1
02020	t-Butyl alcohol	75-65-0	0.022	0.020		mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005		mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001		mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001		mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001		mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001		mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001		mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 17:02	K. Robert Caulfeild-James	50
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 18:41	Parker D Lindstrom	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:07	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:45	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768154

MW-19-S-25.5-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 MW-19
Collected: 05/08/2006 14:30 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1925

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	Units	Dilution Factor
				Method Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.0007	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 17:39	K. Robert Caulfeild-James	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 19:04	Parker D Lindstrom	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:08	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:48	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768155

MW-19-S-30.5-060508 Grab Soil
Facility# 90260 CETR

21995 Foothill-Hayward T0600100315 MW-19

Collected: 05/08/2006 14:40 by CE Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1930

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	2.3		1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.0006		0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.		0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.		0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.		0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	0.046		0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.		0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.		0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.		0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.		0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.		0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.		0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 18:15	K. Robert Caulfeild-James	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 19:26	Parker D Lindstrom	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:09	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:50	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768156

MW-19-S-35-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 MW-19
Collected: 05/08/2006 14:50 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1935

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.		1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.0008	0.0005		mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001		mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001		mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001		mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020		mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005		mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001		mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001		mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001		mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001		mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001		mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 18:52	K. Robert Caulfeild-James	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 19:50	Parker D Lindstrom	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:11	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:52	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768157

MW-19-S-40.5-060508 Grab Soil
Facility# 90260 CETR

21995 Foothill-Hayward T0600100315 MW-19

Collected: 05/08/2006 15:05 by CE Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1940

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.		1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.						
07361	BTEX+5 Oxygenates+EDC+EDB						
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.0006		0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.		0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.		0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.		0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.		0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.		0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.		0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.		0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.		0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.		0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.		0.001	mg/kg	1

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 14:00	K. Robert Caulfeild-James	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 20:13	Parker D Lindstrom	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:12	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:54	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW 4768158

MW-19-S-45.5-060508 Grab Soil
Facility# 90260 CETR
21995 Foothill-Hayward T0600100315 MW-19
Collected: 05/08/2006 15:22 by CE

Account Number: 10880

Submitted: 05/10/2006 09:30
Reported: 05/23/2006 at 13:19
Discard: 06/23/2006

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

M1945

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	Units	Dilution Factor
				Method Detection Limit		
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The analysis for volatiles was performed on a sample which was preserved in methanol. The reporting limits were adjusted appropriately. The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time.					
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01

State of California Lab Certification No. 2116

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	05/15/2006 14:36	K. Robert Caulfeild-James	25
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	05/19/2006 20:36	Parker D Lindstrom	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	05/19/2006 11:13	Parker D Lindstrom	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	05/10/2006 14:56	Eric L Vera	n.a.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/23/06 at 01:19 PM

Group Number: 988933

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06135A31A	Sample number(s): 4768150-4768158							
TPH-GRO - Soils	N.D.	1.0	mg/kg	86		67-119		
Batch number: 06136A33A	Sample number(s): 4768146-4768149							
TPH-GRO - Soils	N.D.	1.0	mg/kg	90		67-119		
Batch number: B061361AA	Sample number(s): 4768147							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	93		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	92		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	93		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	92		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	108		52-153		
Benzene	N.D.	0.5	ug/kg	97		77-119		
1,2-Dichloroethane	N.D.	1.	ug/kg	103		76-126		
Toluene	N.D.	1.	ug/kg	100		81-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	97		77-114		
Ethylbenzene	N.D.	1.	ug/kg	100		82-115		
Xylene (Total)	N.D.	1.	ug/kg	100		82-117		
Batch number: B061361AB	Sample number(s): 4768146, 4768148							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	93		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	92		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	93		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	92		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	108		52-153		
Benzene	N.D.	0.5	ug/kg	97		77-119		
1,2-Dichloroethane	N.D.	1.	ug/kg	103		76-126		
Toluene	N.D.	1.	ug/kg	100		81-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	97		77-114		
Ethylbenzene	N.D.	1.	ug/kg	100		82-115		
Xylene (Total)	N.D.	1.	ug/kg	100		82-117		
Batch number: B061391AA	Sample number(s): 4768149-4768151, 4768153-4768158							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	97		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	100		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	96		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	95		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	104		52-153		
Benzene	N.D.	0.5	ug/kg	101		77-119		
1,2-Dichloroethane	N.D.	1.	ug/kg	115		76-126		
Toluene	N.D.	1.	ug/kg	100		81-116		
1,2-Dibromoethane	N.D.	1.	ug/kg	95		77-114		
Ethylbenzene	N.D.	1.	ug/kg	99		82-115		
Xylene (Total)	N.D.	1.	ug/kg	98		82-117		
Batch number: Q061361AB	Sample number(s): 4768152							
Methyl Tertiary Butyl Ether	N.D.	63.	ug/kg	99		75-125		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/23/06 at 01:19 PM

Group Number: 988933

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
di-Isopropyl ether	N.D.	130.	ug/kg	97		70-129		
Ethyl t-butyl ether	N.D.	130.	ug/kg	100		62-131		
t-Amyl methyl ether	N.D.	130.	ug/kg	98		63-129		
t-Butyl alcohol	N.D.	2,500.	ug/kg	89		52-153		
Benzene	N.D.	63.	ug/kg	97		77-119		
1,2-Dichloroethane	N.D.	130.	ug/kg	107		76-126		
Toluene	N.D.	130.	ug/kg	97		81-116		
1,2-Dibromoethane	N.D.	130.	ug/kg	97		77-114		
Ethylbenzene	N.D.	130.	ug/kg	100		82-115		
Xylene (Total)	N.D.	130.	ug/kg	97		82-117		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 06135A31A TPH-GRO - Soils	Sample number(s): 4768150-4768158 UNSPK: P769461								
	91	92	39-118	2	30				
Batch number: 06136A33A TPH-GRO - Soils	Sample number(s): 4768146-4768149 UNSPK: 4768146								
	80	81	39-118	2	30				
Batch number: B061361AA Methyl Tertiary Butyl Ether	Sample number(s): 4768147 UNSPK: P766279								
di-Isopropyl ether	75	83	47-130	10	30				
Ethyl t-butyl ether	82	88	58-122	7	30				
t-Amyl methyl ether	77	84	57-122	9	30				
t-Butyl alcohol	76	82	58-119	8	30				
Benzene	98	101	51-134	4	30				
1,2-Dichloroethane	88	87	59-120	1	30				
Toluene	91	94	62-130	4	30				
1,2-Dibromoethane	92	89	49-132	4	30				
Ethylbenzene	79	82	62-116	4	30				
Xylene (Total)	86	85	50-127	1	30				
	87	87	44-127	0	30				
Batch number: B061361AB Methyl Tertiary Butyl Ether	Sample number(s): 4768146,4768148 UNSPK: P766279								
di-Isopropyl ether	75	83	47-130	10	30				
Ethyl t-butyl ether	82	88	58-122	7	30				
t-Amyl methyl ether	77	84	57-122	9	30				
t-Butyl alcohol	76	82	58-119	8	30				
Benzene	98	101	51-134	4	30				
1,2-Dichloroethane	88	87	59-120	1	30				
Toluene	91	94	62-130	4	30				
1,2-Dibromoethane	92	89	49-132	4	30				
Ethylbenzene	79	82	62-116	4	30				
Xylene (Total)	86	85	50-127	1	30				
	87	87	44-127	0	30				
Batch number: B061391AA Methyl Tertiary Butyl Ether	Sample number(s): 4768149-4768151,4768153-4768158 UNSPK: P768289								
di-Isopropyl ether	53	54	47-130	1	30				
	73	77	58-122	4	30				

*. Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/23/06 at 01:19 PM

Group Number: 988933

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Ethyl t-butyl ether	68	73	57-122	6	30				
t-Amyl methyl ether	67	73	58-119	7	30				
t-Butyl alcohol	95	98	51-134	2	30				
Benzene	78	82	59-120	4	30				
1,2-Dichloroethane	100	103	62-130	1	30				
Toluene	68	76	49-132	8	30				
1,2-Dibromoethane	77	83	62-116	6	30				
Ethylbenzene	74	78	50-127	4	30				
Xylene (Total)	71	78	44-127	7	30				

Batch number: Q061361AB	Sample number(s): 4768152 UNSPK: P767120				
Methyl Tertiary Butyl Ether	80	77	47-130	2	30
di-Isopropyl ether	81	79	58-122	2	30
Ethyl t-butyl ether	82	80	57-122	0	30
t-Amyl methyl ether	84	82	58-119	2	30
t-Butyl alcohol	77	80	51-134	6	30
Benzene	82	80	59-120	0	30
1,2-Dichloroethane	82	79	62-130	2	30
Toluene	39*	59	49-132	10	30
1,2-Dibromoethane	81	85	62-116	6	30
Ethylbenzene	70	87	50-127	8	30
Xylene (Total)	61	83	44-127	9	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO - Soils
Batch number: 06135A31A
Trifluorotoluene-F

4768150	81
4768151	85
4768152	7*
4768153	46*
4768154	84
4768155	84
4768156	85
4768157	81
4768158	91
Blank	72
LCS	83
MS	74
MSD	71

Limits: 61-122

Analysis Name: TPH-GRO - Soils
Batch number: 06136A33A

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/23/06 at 01:19 PM

Group Number: 988933

Surrogate Quality Control

Trifluorotoluene-F

4768146	81
4768147	81
4768148	79
4768149	83
Blank	83
LCS	83
MS	62
MSD	66

Limits: 61-122

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch number: B061361AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4768147	114	101	92	72
Blank	91	85	92	74
LCS	91	90	98	90
MS	92	83	97	90
MSD	92	87	96	91

Limits: 71-114 70-109 70-123 70-111

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch number: B061361AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4768146	110	92	93	76
4768148	113	95	92	81
Blank	98	87	95	79
LCS	91	90	98	90
MS	92	83	97	90
MSD	92	87	96	91

Limits: 71-114 70-109 70-123 70-111

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch number: B061391AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4768149	98	89	87	73
4768150	101	98	85	72
4768151	102	87	84	85
4768153	98	91	87	72
4768154	104	92	86	74
4768155	103	92	86	75
4768156	104	88	86	70
4768157	109	91	85	72
4768158	109	94	85	70
Blank	96	91	87	72
LCS	92	86	92	91
MS	79	79	97	97
MSD	80	81	97	95

Limits: 71-114 70-109 70-123 70-111

*- Outside of specification

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- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/23/06 at 01:19 PM

Group Number: 988933

Surrogate Quality Control

Analysis Name: BTEX+5 Oxygenates+EDC+EDB
Batch number: Q061361AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4768152	90	94	88	85
Blank	96	101	93	86
LCS	105	104	99	95
MS	80	84	82	83
MSD	78	81	83	83
Limits:	71-114	70-109	70-123	70-111

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody



240608

For Lancaster Laboratories use only
 Acct. #: 10880 Sample #: 4768146-58 SCR#: 988933

050906-02

Facility #: 9-0260 (AIL)
 Site Address: 21995 FOOTHILL BOULEVARD, HAYWARD, CA
 Chevron PM: J. MARK INGLIS Lead Consultant: CAMBRIA
 Consultant/Office: 5900 HOLLIS ST. SUITE A, EMERYVILLE, CA
 Consultant Prj. Mgr.: BOB FOSS
 Consultant Phone #: 510-420-3351 Fax #: 510-420-9170
 Sampler: CHARLOTTE EVANS
 Service Order #: _____ ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation

☐ Confirm highest hit by 8260

☐ Confirm all hits by 8260

☐ Run ____ oxy's on highest hit

☐ Run ____ oxy's on all hits

Comments / Remarks

OXYGENATES:
 DIPE, TAHE, TBA
 ETBE, 1,2-DCA,
 EDB

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTX + MTBE 8260 <input checked="" type="checkbox"/> 8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 (full scan)	Oxygenates 8260 (see comment)	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>
DVE20-S-6	S		6	060508	1044		X		1	X	X			X	
DVE20-S-10.5	S		10.5	060508	1052		X		1	X	X			X	
DVE20-S-20.5	S		20.5	060508	1110		X		1	X	X			X	
DVE20-S-25.5	S		25.5	060508	1117		X		1	X	X			X	
MW-19-S-6	S		6	060508	1356		X		1	X	X			X	
MW-19-S-10.5	S		10.5	060508	1404		X		1	X	X			X	
MW-19-S-15.5	S		15.5	060508	1412		X		1	X	X			X	
MW-19-S-20.5	S		20.5	060508	1420		X		1	X	X			X	
MW-19-S-25.5	S		25.5	060508	1430		X		1	X	X			X	
MW-19-S-30.5	S		30.5	060508	1440		X		1	X	X			X	
MW-19-S-35	S		35	060508	1450		X		1	X	X			X	
MW-19-S-40.5	S		40.5	060508	1505		X		1	X	X			X	
MW-19-S-45.5	S		45.5	060508	1522		X		1	X	X			X	

Turnaround Time Requested (TAT) (please circle)

STD. TAT 72 hour 48 hour
 24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full
 Type VI (Raw Data) ☐ Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by:

Thomas J. Jorgensen

Date Time
5/9/06 910

Received by:

Henry White

Date Time
5/9/06 0910

Relinquished by:

Andrew Ramirez

Date Time
5/9/06 1530

Received by:

DHL

Date Time
5/9/06

Relinquished by:

Relinquished by Commercial Carrier:

UPS FedEx Other OHL

Received by:

[Signature]

Date Time
5/10/06 0930

Temperature Upon Receipt 6000°C 1.6° - 3.8°

Custody Seals Intact? ☒ Yes ☐ No

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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