Chevron Environmental Management Company
6001 Bollinger Canyon Rd, K2236
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-9559
Fax 925-842-8370

Dana Thurman
Project Manager

ChevronTexaco

March 29, 2006
(date)

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station # 9-0917

Address: 5280 Hopyard Road, Pleasanton, California

I have reviewed the attached report titled Subsurface Investigation Report and dated March 29, 2006.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Cambria Environmental Technology, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Dana Thurman
Project Manager

Enclosure: Report

CAMBRIA

March 29, 2006

Mr. Jerry Wickham
Alameda County Health Care Services Agency (ACHCSA)
Deptartment of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: **Subsurface Investigation Report**
Chevron Service Station #9-0917
5280 Hopyard Road
Pleasanton, California

Dear Mr. Wickham;

On behalf of Chevron Environmental Management Company (Chevron), Cambria Environmental Technology, Inc. (Cambria) is submitting this *Subsurface Investigation Report* for the site referenced above. The work was performed in accordance with Cambria's November 4, 2005 *Investigation Workplan Addendum* and approved by the ACHCSA in a letter dated November 17, 2005 (Attachment A). In order to define the lateral and vertical extent of hydrocarbons in soil and groundwater, Cambria advanced a total of five soil borings. The site background, details of the investigation and Cambria's conclusions are presented below.

SITE BACKGROUND

Site Description: The site is located at the southern corner of the intersection of Hopyard Road and Owens Drive in Pleasanton, California (Figure 1). The site is an active Chevron station with a station building, car wash facility, four underground storage tanks (USTs), and three dispenser islands (Figure 2).

Local topography is flat and the site is approximately 335 feet above meal sea level (msl). The closest surface water is Chabot Canal approximately 250 feet east of the site. The area surrounding the site is primarily commercial.

Site Hydrogeology: The Livermore Valley Groundwater Basin is divided into twelve sub-basins based on fault traces and hydrologic discontinuities. The site is located in the Dublin Sub-Basin (DSB). Regionally, the upper, unconfined groundwater in the DSB generally flows south. Aquifers in the DSB are generally flat lying, but there is a drop in groundwater elevation of approximately 50 feet across the Parks Fault (*Evaluation of Groundwater Resources: Livermore and Sonol Valleys*, Department of the Water Resources Bulletin Number 118-2, June 1974). The

Cambria Environmental Technology, Inc.

2000 Opportunity Drive
Suite 110
Roseville, CA 95678
Tel (916) 677-3407
Fax (916) 677-3687

Park Fault trends east-northeast approximately 1 mile south of the site (Pacific Environmental Group, Inc., *Soil and Groundwater Investigation*, dated August 11, 1997).

Historically, the site groundwater flow direction has been variable, but recent events indicate a south-southeast flow direction at an approximate gradient between 0.004 to 0.009. Measured depth to groundwater at the site ranges between 7.5 and 10 fbg.

PREVIOUS INVESTIGATIONS

August 1989, Monitoring Well Installation: In August 1989, Groundwater Technology, Inc. (GTI) installed three on-site groundwater monitoring wells, MW-1 through MW-3. Soil samples from these well borings do not appear to have been submitted for laboratory analysis based on the information supplied by Chevron.

June 1991, UST Replacement and Soil Excavation: In June 1991, Blaine Tech Services, Inc. observed the UST system removal and soil excavation, and collected soil and grab-groundwater samples for chemical analyses. Five fiberglass USTs, consisting of three 10,000-gallon gasoline, one 10,000-gallon diesel, and one 500-gallon used-oil USTs were removed and replaced with four 12,000-gallon double-walled fiberglass gasoline USTs. TPHg and benzene were reported in soil samples collected from the bottom of the UST excavation at maximum concentrations of 70 milligrams per kilogram (mg/kg) and 0.64 mg/kg, respectively, at depths of 9.5 fbg to 10 fbg. TPHg and benzene were reported in over-excavation soil samples collected from beneath the fuel product piping at concentrations of 440 mg/kg and 1.1 mg/kg, respectively, at 7 fbg. Total petroleum hydrocarbons as diesel (TPHd) was reported at a maximum concentration of 8.0 mg/kg from 10 fbg in the product piping area. Over-excavation of UST and product piping areas extended to maximum depths of approximately 10 fbg. Total petroleum hydrocarbons as gasoline (TPHg) and benzene were reported in a grab-groundwater sample collected from the bottom of the UST excavation at concentrations of 24,000 micrograms per liter (µg/L) and 1,000 µg/L, respectively. Depth to water in the excavation was measured at approximately 10 fbg. Approximately 90 cubic yards of soil, not including additional gravel, was removed during UST removal and over-excavation and approximately 70 cubic yards of soil were removed during product line removal and over-excavation. The probable source area, based on reported soil and grab-groundwater samples, is the former dispenser island and associated northeastern product lines. Soil analytical results and sample locations are found in Gettler-Ryan's (G-R) *Site Conceptual Model and Closure Request*, dated January 25, 2002.

July 1991, Monitoring Well Destruction and Well Installation: In July 1991, GTI destroyed wells MW-1 through MW-3 and installed three groundwater monitoring wells, MW-4 through MW-6. Based on information provided by Chevron, no soil samples from the well borings were submitted for chemical analyses. Groundwater was encountered in the well borings at a depth of approximately 9 fbg.

May 1997, Monitoring Well Installation: On May 5, 1997, Pacific Environmental Group, Inc. (PEG), installed three off-site groundwater monitoring wells, MW-7 through MW-9, to define the extent of petroleum hydrocarbons and methyl tertiary butyl ether (MTBE) in groundwater south of the source area. Selected soil samples were analyzed for TPHg, MTBE, benzene, toluene, ethylbenzene, and xylenes (BTEX). These compounds were not reported in any of the soil samples. Selected soil samples were sent to Cooper Testing Facilities for physical analysis for moisture, density, porosity, specific gravity, and organic content.

March 1999, Enhanced Bioremediation: Oxygen releasing compound (ORC) socks were installed in wells MW-5 and MW-6 on March 26, 1999, to increase the dissolved oxygen concentrations in groundwater in the areas of known petroleum hydrocarbons to oxidize organic contaminates and enhance biodegradation within the plume. A significant decrease in dissolved hydrocarbon concentrations was observed in wells MW-5 and MW-6 after installation of the ORC. A significant decrease in dissolved oxygen (DO) concentrations in wells MW-5 and MW-6 was reported from samples collected from June 19, 2000 to September 18, 2000, suggesting that the ORC socks were spent and oxidation and biodegradation were occurring. DO concentrations stabilized around 3.6 mg/L and 4.3 mg/L in wells MW-5 and MW-6, respectively, for the next five quarters. A second significant decrease in DO was reported from samples collected from September 7, 2001 to December 5, 2001. DO concentrations have stabilized to an average of 1.3 mg/L and 1.4 mg/L in wells MW-5 and MW-6, respectively.

INVESTIGATION RESULTS

The objective of this investigation was to define the vertical and lateral extent of hydrocarbons in soil and groundwater and to evaluate any on-site human health risk. To meet this objective, Cambria advanced a total of five soil borings. Two of the borings were advanced to the deeper groundwater bearing zones using a Cone Penetration Technology (CPT) direct push drill rig. For soil borings GP-1 and GP-2, an initial CPT boring was advanced to 60 fbg to log soil types and identify potential groundwater bearing zones. Following the evaluation, the initial boring was grouted to surface and the rig moved approximately five feet away. A second CPT boring was

then advanced to the identified potential groundwater bearing zones for depth discrete groundwater sample collection. Three depth discrete groundwater samples were attempted from each location. However, soil boring GP-1 produced no water at 24 to 28 fbg and GP-2 produced no water at 12 to 16 fbg and 33 to 37 fbg. The remaining three shallow soil borings, GP-3 through GP-5, were advanced to 10 fbg using a hand auger. Grab-groundwater samples were collected in all three soil borings at approximately 9 fbg. A total of 12 shallow soil samples were collected from borings GP-1 through GP-5 to evaluate any on-site human health risk. Soil and groundwater sample results are summarized in Tables 1 and 2, respectively. Permits and boring logs are presented in Attachment B. The laboratory analytical report is presented in Attachment C. Standard Field Procedures for soil borings are presented in Attachment D. Details of the investigation and results are summarized below.

Permits: Zone 7 Water Agency Drilling Permit #26020 and City of Pleasanton Encroachment Permit #ENCR 201440 (Attachment B).

Drilling Dates: February 2 through 9, 2006.

Drilling Companies: Cambria Environmental Technology, Inc. of Emeryville, CA (Class A License #740582 with hazardous substances removal certification) and Gregg Drilling of Martinez, CA (C-57 License # 485165).

Sampling Personnel: Staff Geologist Reijo Ratilainen and Staff Scientist Leon Gearhart conducted all fieldwork under the supervision of California Professional Geologist David W. Herzog (P.G. #7211).

Number of Borings: Five borings (GP-1 through GP-5).

Drilling Method: The first 8 feet of borings GP-1 and GP-2 were cleared using a hand auger to ensure no subsurface utilities were encountered. Below 8 feet, each boring was advanced using cone CPT and a hydro punch sampler. Borings GP-3 through GP-5 were advanced to approximately 10 fbg by hand auger.

Depth-Discrete Groundwater Sampling: Depth discrete groundwater samples were collected in GP-1 at 8 fbg, 36 fbg and 54 fbg and in GP-2 at 28 fbg and 51 fbg. Grab-groundwater samples collected from borings GP-3 through GP-5 were all collected at approximately 9 fbg. The Laboratory analytical report is presented in Attachment C. Standard Field Procedures for borings are presented in Attachment D.

Encountered Lithology: Lithology encountered in the CPT borings predominantly consisted of interbedded clayey silt, silty clay, sandy silt and clay to a total explored depth of 60 fbg. Lithology encountered in soil borings GP-3 through GP-5 consists of silt with sand to a maximum depth of 10 fbg. .

Laboratory Analyses: All soil and groundwater samples were analyzed for:

- TPHg by N. CA LUFT Gasoline method,
- BTEX, MTBE, tert-butyl ether (TBA) di-isopropyl ether (DIPE), tert-amyl methyl ether (TAME), ethyl tert-butyl ether (ETBE) and ethanol by EPA Method 8260B.

Soil Disposal: Soil cuttings were stored on-site. Pending landfill approval, the cuttings are scheduled to be removed by Integrated Waste Management and transported to a Chevron approved facility.

HYDROCARBONS IN SOIL

TPHg was only reported in soil samples from boring GP-1 at concentrations ranging from 110 mg/kg to 7.9 mg/kg. San Francisco Bay Regional Water Quality Control Board (SF Bay-RWQCB) environmental screening limits (ESL)[1] for TPHg is 100 mg/kg. The sample at 5 fbg only slightly exceeds the ESL. Benzene was also only reported in soil boring GP-1 at concentrations ranging from 0.09 mg/kg to 0.003 mg/kg which do not exceed the benzene ESL of 0.18 mg/kg. MTBE was

[1] ESL from Table B: Shallow Soil (<3m)-Water is NOT a current potential source of drinking water in Chapter 4 of *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board San Francisco Bay Region, interim final dated February 2005

only reported in the soil sample from boring GP-2 at 10 fbg at a concentration of 0.006 mg/kg which does not exceed the ESL of 2 mg/kg for shallow soil. It appears shallow soil concentrations near the station building do not pose a significant on-site risk to human health. Soil sample results are presented as Table 1.

HYDROCARBONS IN GROUNDWATER

TPHg was reported at a maximum concentration in groundwater sample GP-1 at 2,400 µg/L at 8 fbg and additionally reported in GP-2 at 28 fbg at a concentration of 110 µg/L. Benzene was only reported in samples from GP-1 at concentrations of 24 µg/L and 0.7 µg/L at depths of 8 fbg and 36 fbg, respectively. MTBE was reported in GP-1 at 36 fbg and GP-2 at 28 fbg at concentrations of 19 µg/L and 22 µg/L, respectively. No TPHG, benzene or MTBE was reported in grab-groundwater samples from borings GP-3 through GP-5 with the exception of 1 µg/L MTBE in GP-5.

The majority of hydrocarbon impact to groundwater appears to be defined vertically to the shallow groundwater bearing zones 20 fbg and above and limited laterally to the area surrounding the former product lines. It is likely that the former northwestern product lines are the primary source for hydrocarbons reported in GP-1 and monitoring well MW-5. The hydrocarbon plume associated with the former product lines appears to be limited on-site as evidenced by non-detect levels of hydrocarbons reported in down-gradient monitoring well MW-9 and soil boring GP-3.

CONCLUSIONS

Minor reported concentrations of hydrocarbons in soil near the station building suggests remaining hydrocarbons in soil do not likely pose a risk to on-site human health. Minor hydrocarbon concentrations remaining in groundwater appear to be limited to the shallow groundwater zone and do not likely extend off-site. The hydrocarbon plume is essentially defined vertically to groundwater bearing zones above 10 fbg and down-gradient by soil boring GP-3 and monitoring well MW-9, cross-gradient by monitoring wells MW-6, MW-7 and Shell monitoring wells S-7 and S-6, and up-gradient by monitoring well MW-4 and soil boring GP-5. Cambria will prepare a site conceptual model (SCM) for this site to identify data gaps in order to evaluate future assessment and remedial needs at this site. Cambria anticipates submitting the SC< to the ACHCSA during the second quarter 2006.

CAMBRIA

LIMITATIONS

The services described in this assessment report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. Summary of previous investigations contained in this report are generally excerpted from existing documents supplied by Chevron, and Cambria does not guarantee their completeness or accuracy.

CLOSING

Cambria appreciates the opportunity to work on this project with you. Please contact Christene Sunding at (916) 677-3407 ext. 109 with any questions or if you require additional information.

Sincerely,
Cambria Environmental Technology, Inc.

Christene M. Sunding
Senior Staff Geologist

David W. Herzog, P.G. #7211
Senior Project Geologist

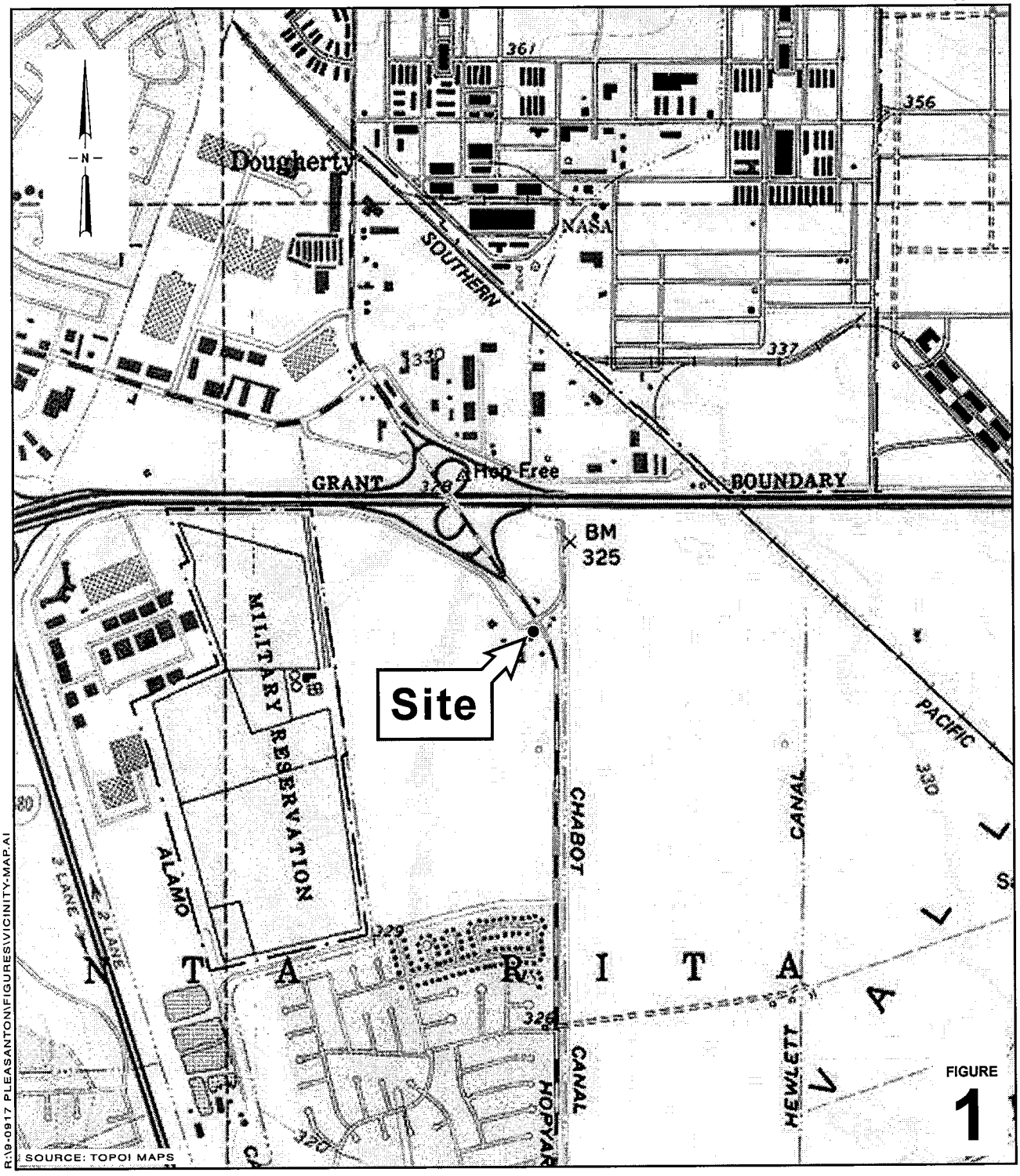
Figures: 1 – Vicinity Map
2 – Site Map

Tables: 1 –Soil Analytical Results
2 –Groundwater Analytical Results

Attachments: A – Regulatory Correspondence
B –Permits and Boring Logs
C –Laboratory Analytical Reports
D – Standard Field Procedures for Borings

cc: Mr. Dana Thurman, Chevron Environmental Management Company, PO Box 6012, K2236, San Ramon, CA 94583

06/08/05



R:\9-0917 PLEASANTON\FIGURES\VICINITY-MAP.AI

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

FIGURE 1

Chevron Service Station 9-0917

5280 Hopyard Road

Pleasanton, California

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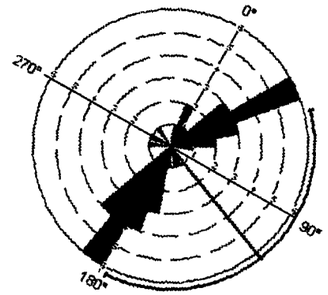
Vicinity Map

11/03/05

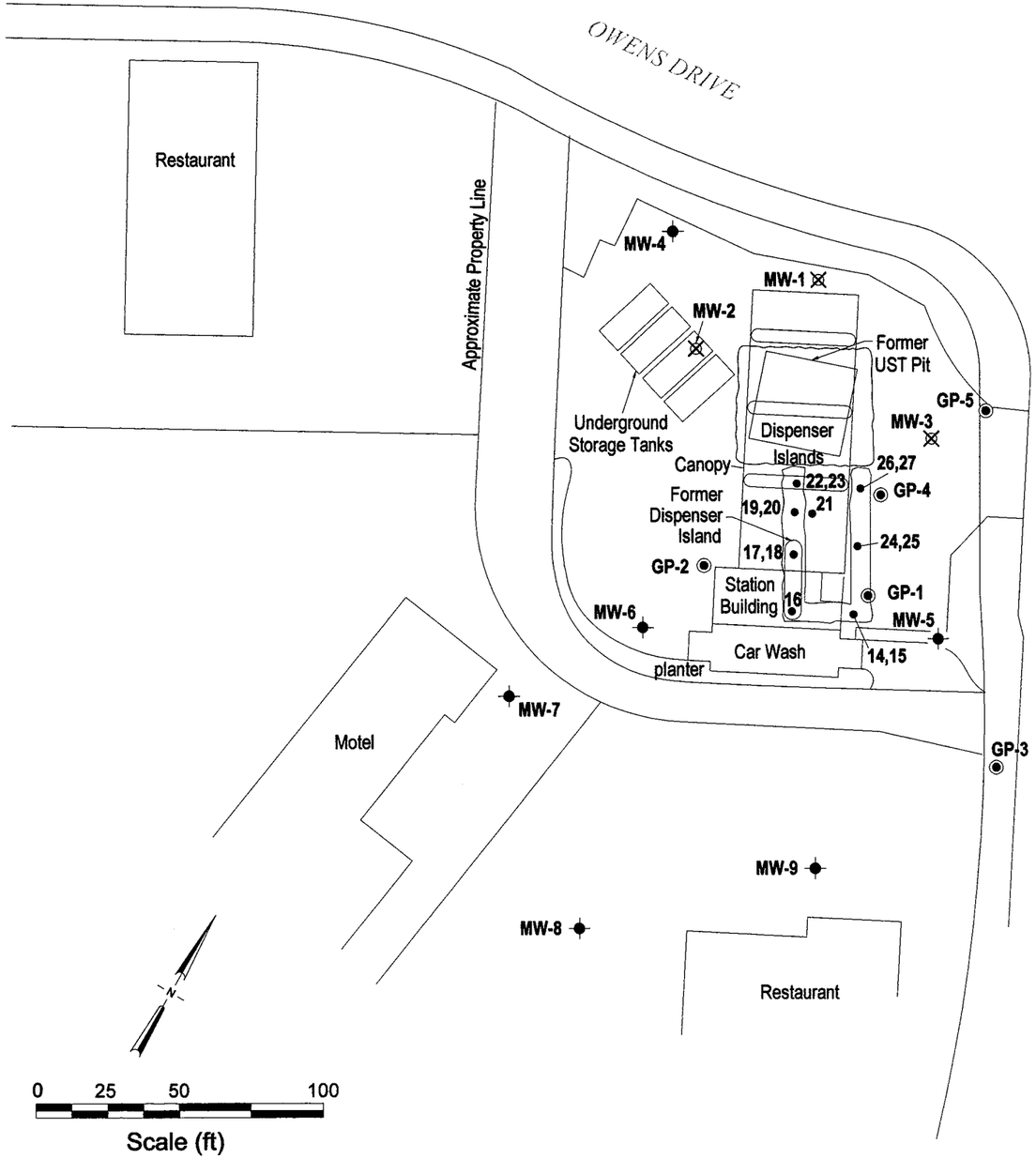
Site Plan

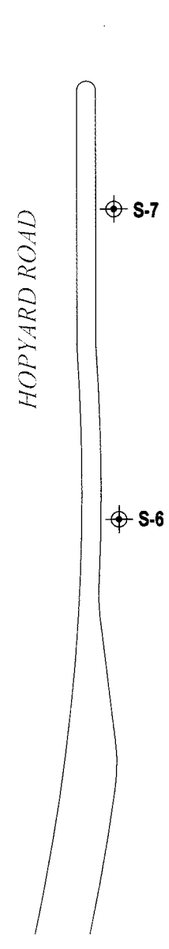


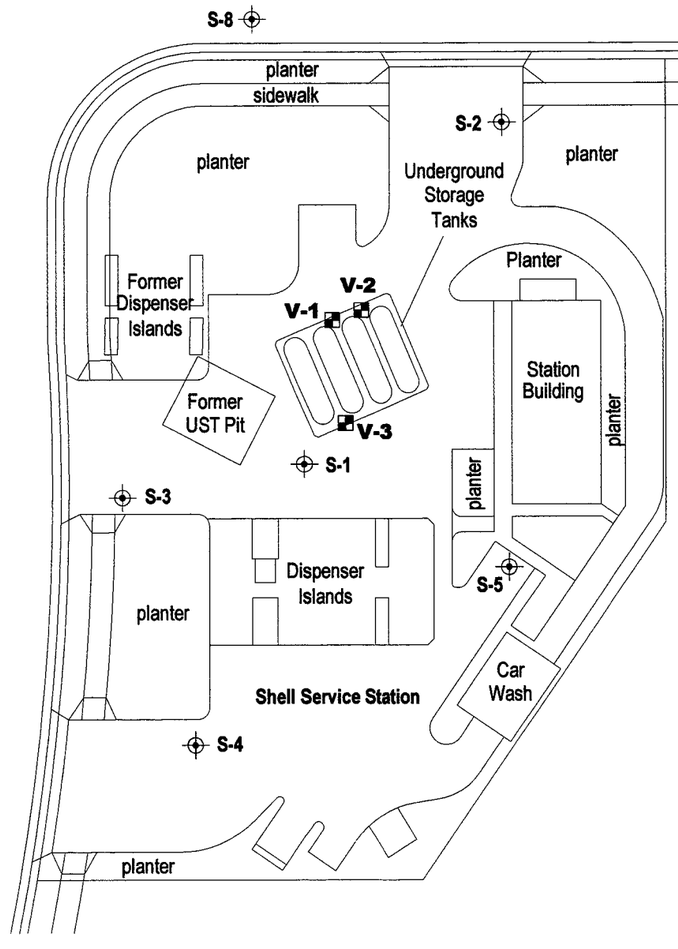
Historical groundwater flow direction
1989 - 2005
(data gap: 1997-2002)

EXPLANATION

- GP-2 — Soil boring location
- MW-1 — Monitoring well location
- MW-3 — Destroyed monitoring well location
- S-8 — Monitoring well location (Shell)
- V-1 — Vapor extraction well (Shell)
- 21 — Soil sample location
- Former excavation limits







FIGURE

2

Chevron Service Station 9-0917
5280 Hopyard Road
Pleasanton, California

CAMBRIA

Table 1
Soil Analytical Results
Chevron Service Station #9-0917
5280 Hopyard Road, Pleasanton, California

Sample ID	Sample Date	Sample Depth (feet bgs)	TPHg	B	T	E	X	DIPE	ETBE	MTBE	TAME	TBA	Ethanol	Lead
			mg/kg											
GP-1	02/09/06	5	110	**0.026**	<0.005	**1.4**	**0.063**	<0.005	<0.005	<0.003	<0.005	<0.10	<0.50	----
		7	7.9	**0.003**	<0.001	**0.003**	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.10	----
		10	70	**0.09**	<0.005	**1.3**	<0.005	<0.005	<0.005	<0.002	<0.005	<0.099	<0.50	----
GP-2	02/02/06	3	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.099	----
		5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.099	----
		10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	0.0006	<0.001	<0.020	<0.10	----
GP-3	02/02/06	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.10	----
		10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.099	----
GP-4	02/02/06	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.10	----
		10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.10	----
GP-5	02/02/06	5	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.099	----
		10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.099	----
SP-S[1]	02/09/06	----	<1.0	<0.005	<0.005	<0.005	<0.02	----	----	<0.05	----	----	----	**8**

Explanation:
TPHg - Total petroleum hydrocarbons as gasoline
BTEX - Benzene, toluene, ethylbenzene, xylenes
DIPE - Di-isopropyl ether
ETBE - Ethyl tert-butyl ether
MTBE - Methyl tert-butyl ether
TAME - Tert-amyl methyl ether
TBA - Tert-butyl alcohol
bgs - below ground surface
mg/kg - milligrams per kilogram

Analytical Methods:
TPHg by N. CA LUFT GRO Method
BTEX, DIPE, ETBE, MTBE, TAME, TBA, and Ethanol by EPA Method 8260B
Lead by EPA Method 6010B
[1] BTEX and MTBE by EPA Method 8021B

Table 2
Groundwater Analytical Results
Chevron Service Station #9-0917
5280 Hopyard Road, Pleasanton, California

Sample ID	Sample Date	Sample Depth (feet bgs)	TPHg	B	T	E	X	DIPE	ETBE	MTBE	TAME	TBA	Ethanol
			concnetrations reported in micrograms per liter (µg/L)										
GP-1	02/09/06	8	**2,400**	**24**	<0.5	**98**	**0.6**	<0.5	<0.5	<0.5	<0.5	<5	<50
		36	<50	**0.7**	<0.5	**2**	<0.5	<0.5	<0.5	**19**	**3**	<5	<50
		54	<50	<0.5	<0.5	**1**	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<50
GP-2	02/08/06	28	**110**	<0.5	<0.5	**2**	<0.5	<0.5	<0.5	**22**	**0.7**	<5	<50
		51	<50	<0.5	<0.5	**2**	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<50
GP-3	02/02/06	----	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<50
GP-4	02/02/06	----	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<50
GP-5	02/02/06	----	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1**	<0.5	<5	<50

Explanation:
TPHg - Total petroleum hydrocarbons as gasoline
BTEX - Benzene, toluene, ethylbenzene, xylenes
DIPE - Di-isopropyl ether
ETBE - Ethyl tert-butyl ether
MTBE - Methyl tert-butyl ether
TAME - Tert-amyl methyl ether
TBA - Tert-butyl alcohol
bgs - below ground surface
µg/L - micrograms per liter

Analytical Methods:
TPHg by N. CA LUFT GRO Method
BTEX, DIPE, ETBE, MTBE, TAME, TBA, and Ethanol by EPA Method 8260B

ATTACHMENT A

Regulatory Correspondance

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

November 17, 2005

Mr. Dana Thurman
Chevron Environmental Management Company
6001 Bollinger Canyon Road
P.O. Box 6012
San Ramon, CA 94583-2324

Lamorinda Development and Investment
89 Davis Road, Suite 160
Orinda, CA 94563

C & H Development Company
43 Panoramic Way
Walnut Creek, CA 94595

Subject: Fuel Leak Case No. RO0000439, Chevron #9-0917, 5280 Hopyard Road, Pleasanton, CA – Work Plan Approval

Dear Mr. Thurman:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the document entitled, "Investigation Work Plan Addendum," dated November 4, 2005. This Work Plan Addendum was submitted in response to technical comments in ACEH correspondence dated September 23, 2005. The Work Plan Addendum adequately addresses the technical comments in our September 23, 2005 correspondence. Therefore, we request that you implement the proposed scope of work and send us the reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **February 15, 2006** - Quarterly Report for the Fourth Quarter 2005
- **April 6, 2006** – Soil and Groundwater Investigation Report
- **May 15, 2006** - Quarterly Report for the First Quarter 2006

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Colleen Winey, QIC 80201
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551

Danielle Stefani
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Bill Hurtido
Accor North America
4001 International Parkway
Carrollton, TX 75007

David Herzog
Cambria Environmental Technology, Inc.
4111 Citrus Avenue, Suite 12
Rocklin, CA 95677

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ATTACHMENT B

Permits and Boring Logs

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 5280 Hopyard Rd. Pleasanton, CA

California Coordinates Source ____ ft. Accuracy ____ ft.
CCN ____ ft. CCE ____ ft.
APN ____

CLIENT
Name Chevron EMC
Address PO Box 16042 Phone --
City San Ramon, CA Zip 94583

APPLICANT
Name Cambria Environmental Fax (510) 420-9170
Address 411 Citrus Ave, Suite 2 Phone (510) 420-0700
City Rocklin, CA Zip 95677

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	••	General	••
Water Supply	••	Contamination	X
Monitoring	••	Well Destruction	••

PROPOSED WELL USE

New Domestic	••	Irrigation	••
Municipal	••	Remediation	••
Industrial	••	Groundwater Monitoring	••
Dewatering	••	Other ____	••••

DRILLING METHOD:

Mud Rotary	••	Air Rotary	••	Hollow Stem Auger	X
Cable Tool	••	Direct Push	X	Other ____	••••

DRILLING COMPANY Gregg Drilling
DRILLER'S LICENSE NO. C57-656407

WELL PROJECTS
Drill Hole Diameter ____ in. Maximum
Casing Diameter ____ in. Depth ____ ft.
Surface Seal Depth ____ ft. Number ____

SOIL BORINGS
Number of Borings 5 Maximum
Hole Diameter 2 in. Depth 60 ft.

ESTIMATED STARTING DATE 2/7/2006
ESTIMATED COMPLETION DATE 2/8/2006

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.
APPLICANT'S SIGNATURE [signature] Date 1/4/06
Reijo Ratilainen

ATTACH SITE PLAN OR SKETCH

FOR OFFICE USE

PERMIT NUMBER 26020
WELL NUMBER ____
APN 941-1301-074-05

PERMIT CONDITIONS

(Circled Permit Requirements Apply)

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(D.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after the completion of permitted work the well installation report including all soil and water laboratory analysis results.

Approved [signature] Wyman Hong Date 1/29/06

Revised: April 27, 2005

THE CITY OF PLEASANTON

PERMIT RECEIPT

RECEIPT NUMBER: 06-76382
RECEIPT DATE: 19-JAN-2006

PERMIT: ENCR 201440 PERMIT ISSUED: 19-JAN-2006 GJF
SCOPE ENCROCHMENT PERMIT FOR POTHOLING

APN: 941 130107405 TRACT: LOT:
SITE: 5280 HOPYARD RD

OWNER: LAMORINDA DEVELOPMENT & INVESTMENT
PO BOX 7611, SAN FRANCISCO, CA 94120-7611

PROF.: GREGG DRILLING 925-313-5800
950 HOWE ROAD, MARTINEZ CA 94553 Local Business License Number:

Fee Code	Fee Qty	Description	Other Receipts	This Receipt
EN.MISC		MISC ENCROACHMENT PERMIT	0.00	160.00
			Totals:	$160.00

Payment Code	Description	Payment Date	Amount
CK	CAMBRIA	19-JAN-2006	

Tendered:	$160.00
Change:	$0.00
Balance:	$0.00

THE CITY OF PLEASANTON

PUBLIC WORKS PERMIT

-Inspections must be requested 24 Hours prior to Starting Work-

Project Address 5280 HOPYARD RD	**APN#** 941 130107405	**Permit #:** ENCR 201440
Subdivision:	**Tract #:** **Lot:**	**Applicant** GREGG DRILLING

Project: -

Owner LAMORINDA DEVELOPMENT & INVESTMENT PO BOX 7611 SAN FRANCISCO, CA 94120-7611 **Phone:**	**Contractor** GREGG DRILLING MARTINEZ, CA 94553 WELL DRILLING 485165

Scope of Work %ENCR-PH ENCROCHMENT PERMIT FOR POTHOLING

Comments
Applicant shall hand auger a soil testing hole in the sidewalk at 5280 Hopyard Road as according to the applicant's attached plan, and standard field procedures for hand auger soil borings. The applicant shall replace the effected sidewalk from scoremark to scoremark if auger method creates cracking as determined by the City inspector, as per attached City drawings 101 and 208(modified)

Quantity	Description	Amount
	MISC ENCROACHMENT PERMIT	160.00

Entered: GJF

CALL PUBLIC WORKS INSPECTION 24 HRS PRIOR TO START OF WORK (925) 931-5680

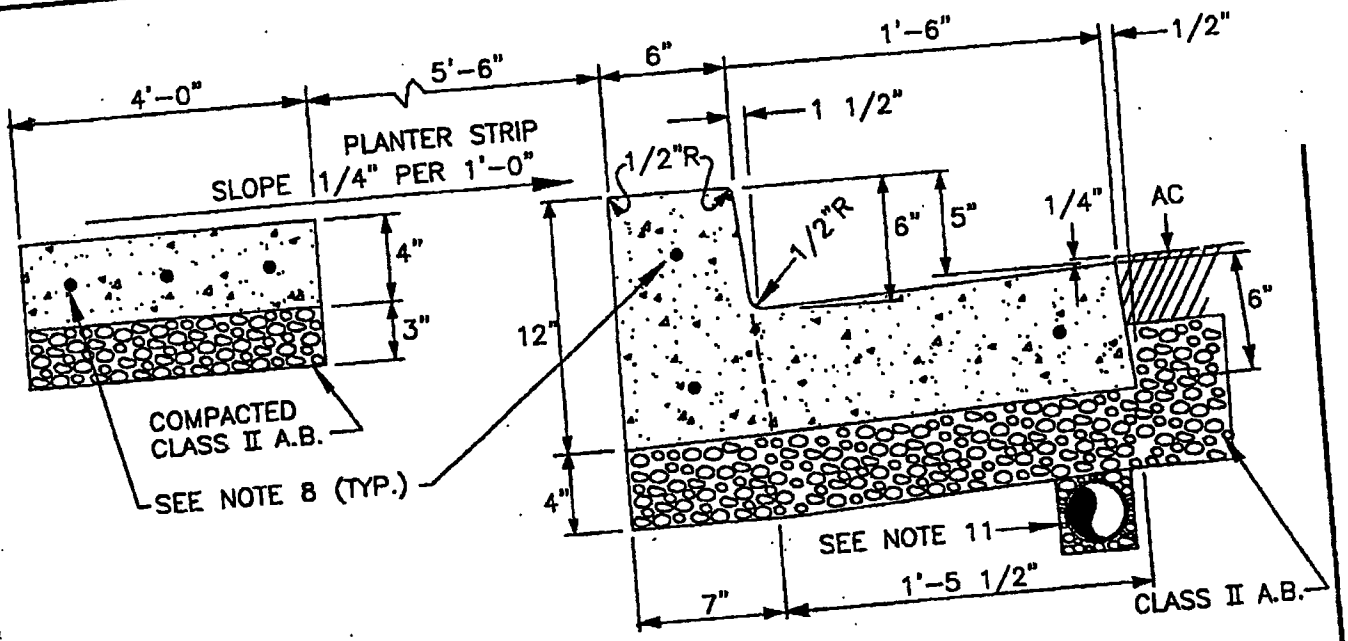
All work to be performed to City of Pleasanton Standard Details and Specifications. This permit is issued pursuant to all provisions of the City of Pleasanton Municipal Code, Chapter 13.04, Encroachment.

Total Fees: $160.00 **Payment:** $160.00

Issued By: _____ **Date of Issue:** 19-JAN-2006

Applicant or Agent: _____ **Date:** 02/01/06

Engineering Division: (925) 931-5650 **Public Works Inspections: (925) 931-5680**



GENERAL NOTES FOR CURB, GUTTER & SIDEWALK:

1.) LANDSCAPE TREATMENT OF PLANTER STRIP SUBJECT TO CITY APPROVAL.
2.) SEE DETAIL NO. 102 FOR SIMILAR SCORING DETAILS.
3.) ROOT BARRIERS ARE REQUIRED ON BOTH SIDES WHEN TREES ARE PLANTED WITHIN PLANTER STRIP.
4.) WHEN REPLACING EXISTING CURB & GUTTER, THE EXISTING ASPHALT SHALL BE SAW CUT 6" FROM GUTTER LIP AND REPLACED WITH FULL DEPTH ASPHALT AFTER NEW CURB & GUTTER IS PLACED.
5.) VAPOR BARRIER SHALL BE INSTALLED AT THE BACK OF CURB/SIDEWALK WHERE THERE IS EXPANSIVE SOIL AS DETERMINED BY CITY ENGINEER.
6.) SEE CITY STANDARD DETAIL NO. 208 FOR CURB THROUGH DRAIN DETAILS.
7.) THE GUTTER LIP SHALL BE PAVED WITH 1/4" OF ASPHALT.
8.) WHEN TYING INTO EXISTING CONCRETE CURB, GUTTER OR SIDEWALK, THE EXISTING CONCRETE SHALL BE DOWELED WITH #4 X 18" BARS AT 18" O.C. IN SIDEWALK AND THREE EACH IN CURB. SEE DETAIL NO. 109, SECTION B-B.
9.) FOR COMPACTION REQUIREMENTS REFER TO STANDARD SPECIFICATIONS, SECTION 7-03A.
10.) SEE DETAIL NO. 828 FOR GRINDING TREE ROOTS OR RETROFITS.
11.) INSTALL A SUBDRAIN IN ACCORDANCE WITH DETAIL 209 UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

NO.	REVISION	BY
1	REV.NOTE,DETAIL	M.S.
DRAWN BY:	P.H.I.	
CHECKED BY:	W.J.	

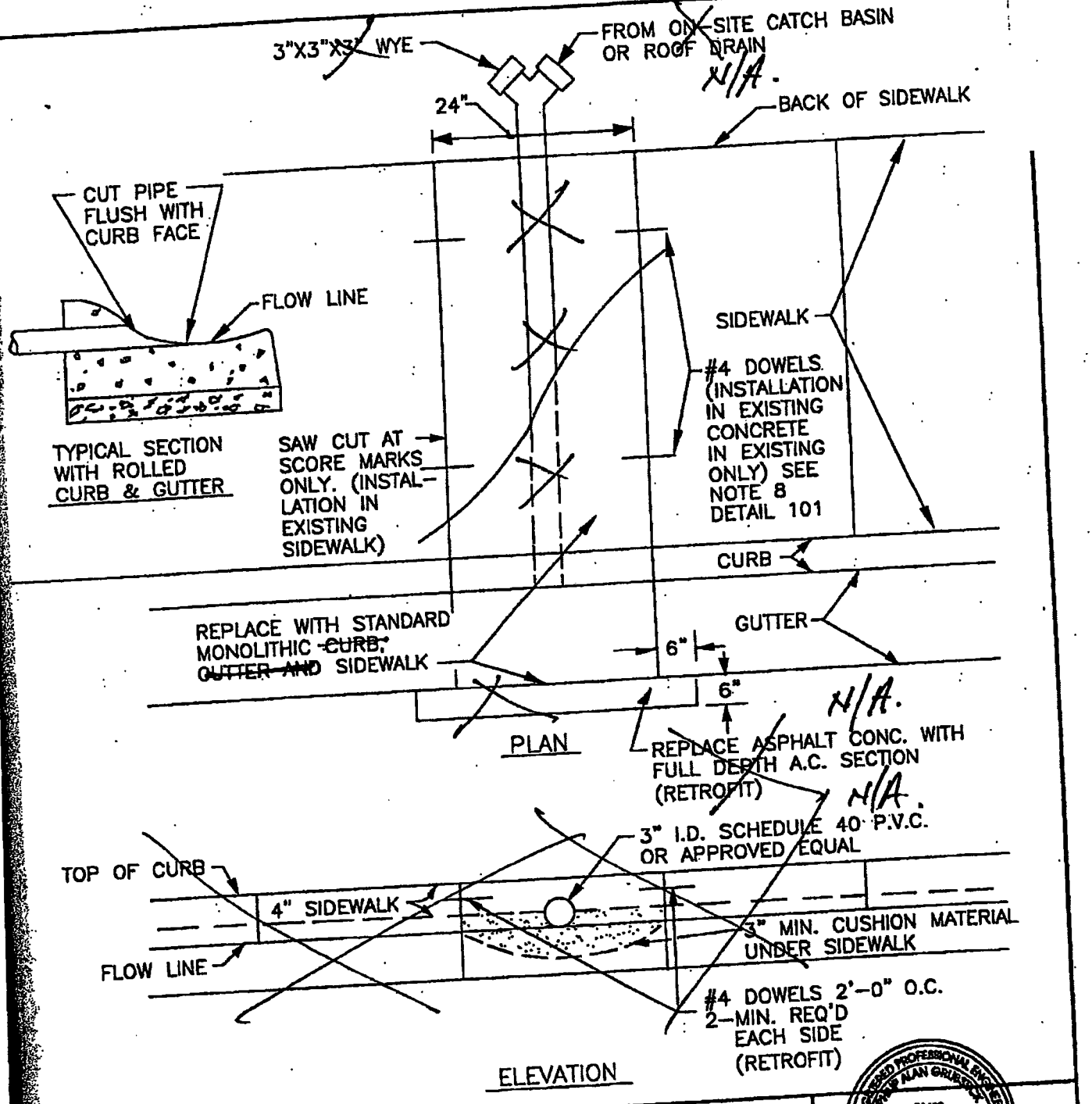
CITY OF PLEASANTON
STANDARD DETAILS

TYPE "A" CURB, GUTTER AND SIDEWALK

REGISTERED PROFESSIONAL ENGINEER PHILIP ALAN GRIBBLE No. 52459 Exp. 09/30/2006 CIVIL STATE OF CALIFORNIA

DATE : 3/02

DRAWING NO. 101



NO.	REV. NOTES	M.S.
NO.	REVISION	BY
DRAWN BY: P.H.I.		
CHECKED BY: W.J.		
SCALE: N.T.S.		

CITY OF PLEASANTON

STANDARD DETAILS

OFF-SITE DRAIN THROUGH CURB

REGISTERED PROFESSIONAL ENGINEER PHILIP ALAN GRUBSTICK No. 22439 Exp. 6/30/2008 CIVIL STATE OF CALIFORNIA

DATE: 7/02

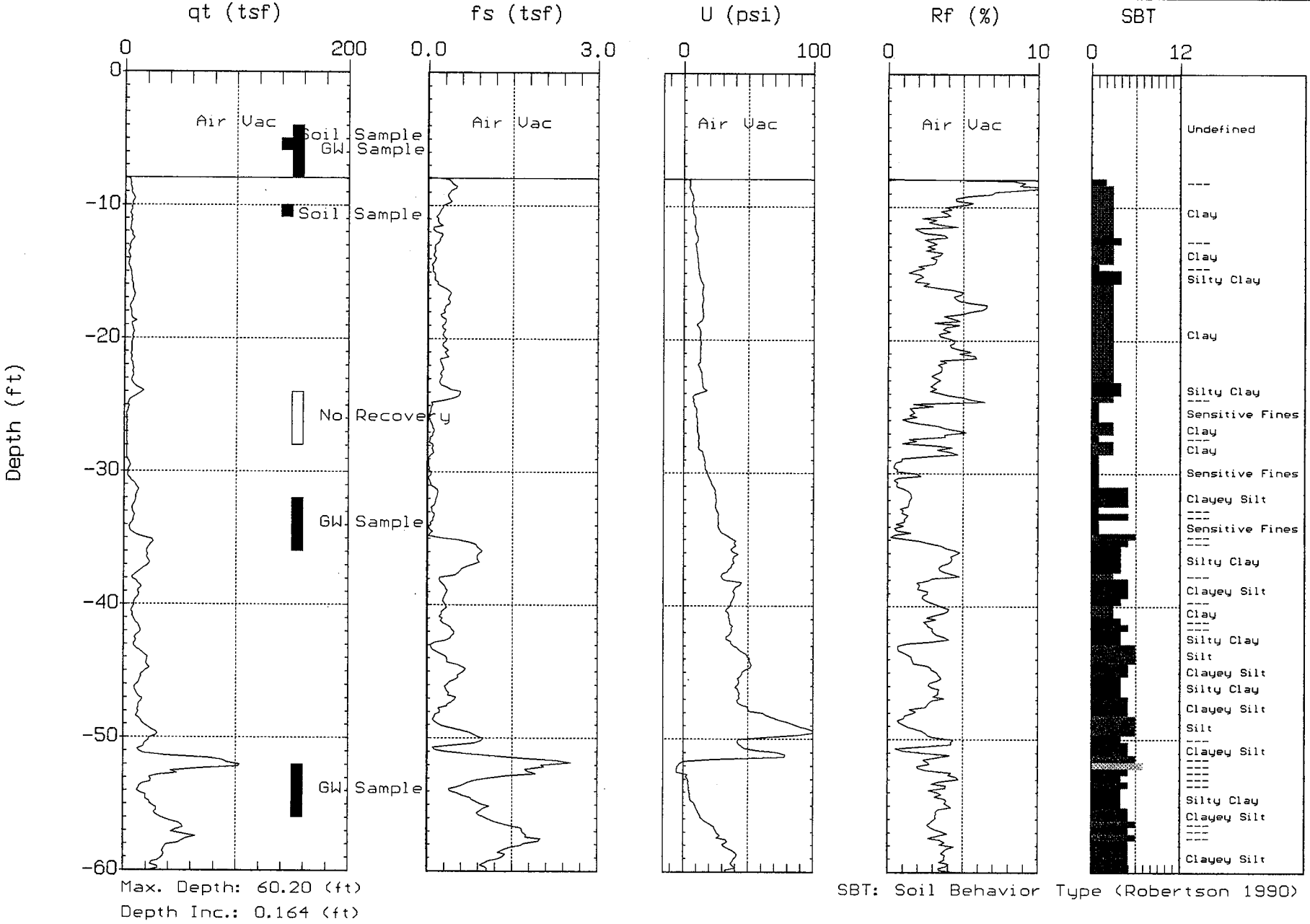
DRAWING NO. 208

GREGG

CAMBRIA

Site: 5280 HOPYARD RD.
Location: CPT-GP-1

Engineer: C.SUNDIRY
Date: 02:09:06 12:14



Max. Depth: 60.20 (ft)
Depth Inc.: 0.164 (ft)

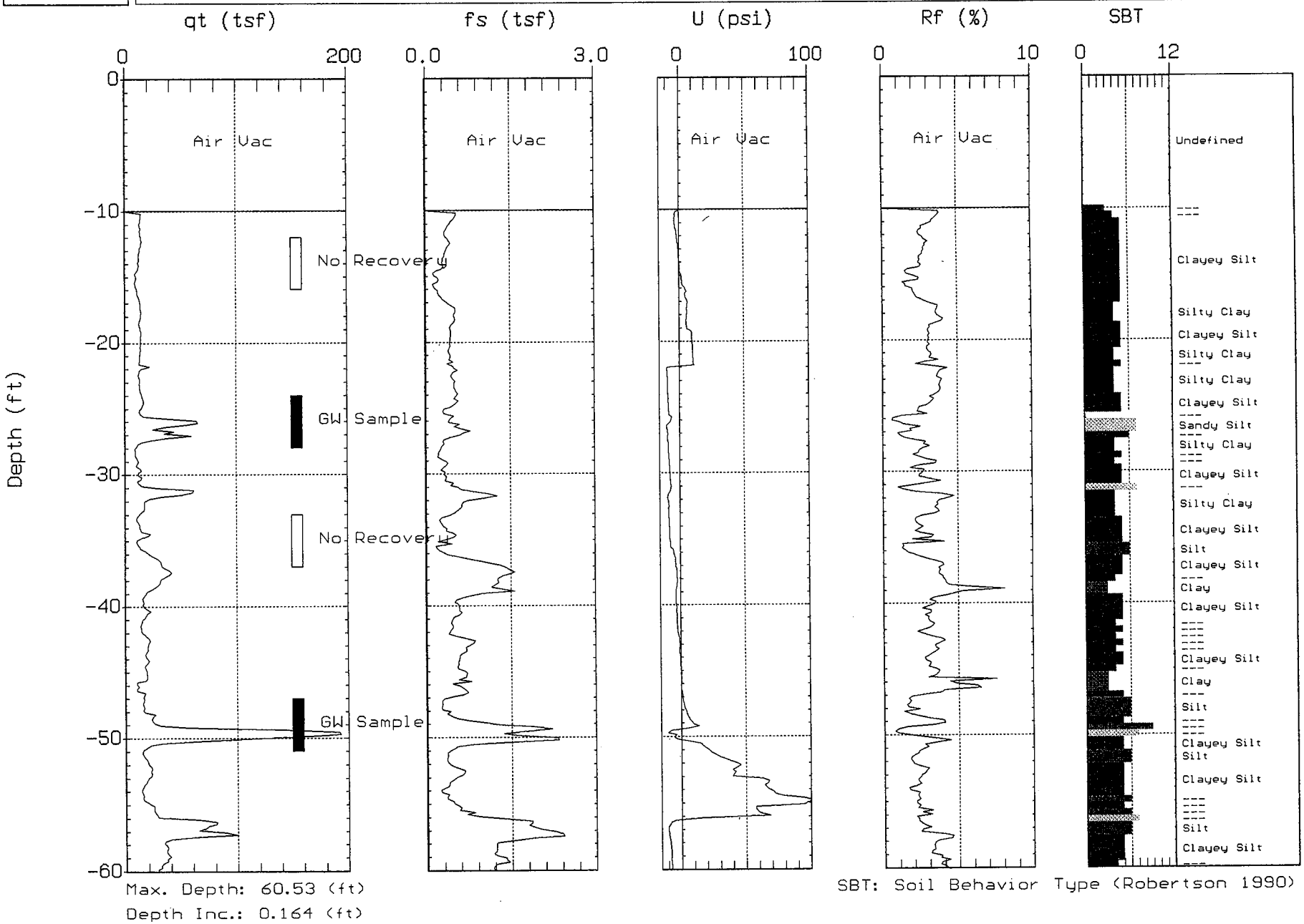
SBT: Soil Behavior Type (Robertson 1990)

GREGG

CAMBRIA

Site: 5280 HOPYARD RD.
Location: CPT-GP-2

Engineer: C.SUNDIRY
Date: 02:08:06 11:13



Max. Depth: 60.53 (ft)
Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 200
Everett, WA 98208
Telephone: 425.353.6628
Fax: 425.3536443

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	GP-3
JOB/SITE NAME	9-0917	**DRILLING STARTED**	02-Feb-06
LOCATION	5280 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	02-Feb-06
PROJECT NUMBER	61H-1959	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Cambria Environmental	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	R. Ratilainen	**DEPTH TO WATER (First Encountered)**	9.0 ft (02-Feb-06) ▽
REVIEWED BY	D. Herzog, PG# 7211	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Concrete: 6-inches.	0.5	Concrete
							Fill	1.5	
0		GP-5@ 5'		5	ML		**SILT with sand**: Grey with brown mottling; moist; 55% silt, 30% clay, 15% fine-grained sand; medium to high plasticity; low to moderate estimated permeability.		Portland Type I/II
0		GP-5@ 10'		10				10.0	Bottom of Boring @ 10 ft

WELL LOG (PID) R:\9-0917 PLEASANTON\GINT\9-0917.GPJ DEFAULT.GDT 3/28/06

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 200
Everett, WA 98208
Telephone: 425.353.6628
Fax: 425.3536443

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	GP-4
JOB/SITE NAME	9-0917	**DRILLING STARTED**	02-Feb-06
LOCATION	5280 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	02-Feb-06
PROJECT NUMBER	61H-1959	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Cambria Environmental	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	R. Ratilainen	**DEPTH TO WATER (First Encountered)**	9.0 ft (02-Feb-06) ▽
REVIEWED BY	D. Herzog, PG# 7211	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Concrete: 6-inches.	0.5	Concrete
0		GP-5@ 5'		5	ML		**SILT with sand**: Grey with brown mottling; moist; 50% silt, 25% fine-grained sand, 25% clay; medium plasticity; moderate estimated permeability.		Portland Type I/II
							- Brown mottling disappears after approximately 5 fbg. - Solid grey below 5 fbg		
0		GP-5@ 10'		10				10.0	Bottom of Boring @ 10 ft

WELL LOG (PID) R:\9-0917 PLEASANTON\GINT\9-0917.GPJ DEFAULT.GDT 3/28/06

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 200
Everett, WA 98208
Telephone: 425.353.6628
Fax: 425.3536443

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	GP-5
JOB/SITE NAME	9-0917	**DRILLING STARTED**	02-Feb-06
LOCATION	5280 Hopyard Road, Pleasanton, CA	**DRILLING COMPLETED**	02-Feb-06
PROJECT NUMBER	61H-1959	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Cambria Environmental	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	R. Ratilainen	**DEPTH TO WATER (First Encountered)**	9.0 ft (02-Feb-06) ▽
REVIEWED BY	D. Herzog, PG# 7211	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Concrete: 6-inches.	0.5	Concrete
							Fill	1.0	
0		GP-5@ 5'		5	ML		**SILT with sand**: Grey with brown mottling; moist; 50% silt, 25% fine-grained sand, 25% clay; medium plasticity; moderate estimated permeability. - Brown mottling disappears after approximately 5 fbg. - Solid grey below 5 fbg		Portland Type I/II
0		GP-5@ 10'		10			▽	10.0	Bottom of Boring @ 10 ft

WELL LOG (PID) R:\9-0917 PLEASANTON\GINT\9-0917.GPJ DEFAULT.GDT 3/28/06

ATTACHMENT C

Laboratory Analytical Reports

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

916-677-3407

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 977908. Samples arrived at the laboratory on Saturday, February 11, 2006. The PO# for this group is 99011184 and the release number is THURMAN.

Client Description			Lancaster Labs Number
GP-1-S-5-060209	Grab	Soil	4708858
GP-1-S-7-060209	Grab	Soil	4708859
GP-1-S-10-060209	Grab	Soil	4708860
GP-1-W-8-060209	Grab	Water	4708861
GP-1-W-36-060209	Grab	Water	4708862
GP-1-W-54-060209	Grab	Water	4708863

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

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

Respectfully Submitted,

Jenifer E. Hess
Manager

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. SW 4708858

GP-1-S-5-060209 Grab Soil
Facility# 90917 CETR
5280 Hopyard-Pleasanton T0600100345 GP-1
Collected:02/09/2006 09:05 by RR

Account Number: 10880

Submitted: 02/11/2006 11:05
Reported: 02/24/2006 at 10:44
Discard: 03/27/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP1-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	110.	20.	mg/kg	500
	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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.50	mg/kg	5
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.003	mg/kg	5
02017	di-Isopropyl ether	108-20-3	N.D.	0.005	mg/kg	5
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.005	mg/kg	5
02019	t-Amyl methyl ether	994-05-8	N.D.	0.005	mg/kg	5
02020	t-Butyl alcohol	75-65-0	N.D.	0.10	mg/kg	5
05460	Benzene	71-43-2	0.026	0.003	mg/kg	5
05466	Toluene	108-88-3	N.D.	0.005	mg/kg	5
05474	Ethylbenzene	100-41-4	1.4	0.12	mg/kg	124.69
06301	Xylene (Total)	1330-20-7	0.063	0.005	mg/kg	5

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 Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/14/2006 10:19	Christopher A Guessford	500
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/20/2006 08:21	Angela D Sneeringer	5
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/16/2006 09:13	Seth J Good	124.69
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/20/2006 08:21	Angela D Sneeringer	5
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/20/2006 02:41	Angela D Sneeringer	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/15/2006 18:36	Lauren C Marzario	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/13/2006 14:45	Larry E Bevins	n.a.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. SW 4708858

GP-1-S-5-060209 Grab Soil
Facility# 90917 CETR
5280 Hopyard-Pleasanton T0600100345 GP-1
Collected:02/09/2006 09:05 by RR

Account Number: 10880

Submitted: 02/11/2006 11:05
Reported: 02/24/2006 at 10:44
Discard: 03/27/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP1-5

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. SW 4708859

GP-1-S-7-060209 Grab Soil
Facility# 90917 CETR
5280 Hopyard-Pleasanton T0600100345 GP-1
Collected:02/09/2006 09:25 by RR

Account Number: 10880

Submitted: 02/11/2006 11:05
Reported: 02/24/2006 at 10:44
Discard: 03/27/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP1-7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	7.9	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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
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	0.003	0.0005	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	0.003	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/14/2006 10:59	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/15/2006 22:12	Kelly E Brickley	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/15/2006 22:12	Kelly E Brickley	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/15/2006 19:33	Lauren C Marzario	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/13/2006 14:50	Larry E Bevins	n.a.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax:717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. SW 4708860

GP-1-S-10-060209 Grab Soil
Facility# 90917 CETR
5280 Hopyard-Pleasanton T0600100345 GP-1
Collected:02/09/2006 10:35 by RR

Account Number: 10880

Submitted: 02/11/2006 11:05
Reported: 02/24/2006 at 10:44
Discard: 03/27/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP110

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	70.	4.0	mg/kg	100
	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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.50	mg/kg	4.95
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.002	mg/kg	4.95
02017	di-Isopropyl ether	108-20-3	N.D.	0.005	mg/kg	4.95
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.005	mg/kg	4.95
02019	t-Amyl methyl ether	994-05-8	N.D.	0.005	mg/kg	4.95
02020	t-Butyl alcohol	75-65-0	N.D.	0.099	mg/kg	4.95
05460	Benzene	71-43-2	0.090	0.002	mg/kg	4.95
05466	Toluene	108-88-3	N.D.	0.005	mg/kg	4.95
05474	Ethylbenzene	100-41-4	1.3	0.005	mg/kg	4.95
06301	Xylene (Total)	1330-20-7	N.D.	0.005	mg/kg	4.95

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 Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/14/2006 15:25	Linda C Pape	100
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/20/2006 08:43	Angela D Sneeringer	4.95
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/20/2006 08:43	Angela D Sneeringer	4.95
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/20/2006 02:42	Lauren C Marzario	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/13/2006 14:55	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4708861

GP-1-W-8-060209 Grab Water
Facility# 90917 CETR
5280 Hopyard-Pleasanton T0600100345 GP-1
Collected:02/09/2006 10:30 by RR

Account Number: 10880

Submitted: 02/11/2006 11:05
Reported: 02/24/2006 at 10:44
Discard: 03/27/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP1-8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	2,400.	50.	ug/l	1
	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.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	24.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	98.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.6	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/14/2006 10:11	Martha L Seidel	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/17/2006 17:33	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/14/2006 10:11	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/17/2006 17:33	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4708862

GP-1-W-36-060209 Grab Water
Facility# 90917 CETR
5280 Hopyard-Pleasanton T0600100345 GP-1
Collected:02/09/2006 13:15 by RR

Account Number: 10880

Submitted: 02/11/2006 11:05
Reported: 02/24/2006 at 10:44
Discard: 03/27/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP136

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	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.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	19.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	3.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	0.7	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1
	The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 3.					

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/14/2006 09:13	Martha L Seidel	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/20/2006 22:20	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/14/2006 09:13	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/20/2006 22:20	Dawn M Harle	1

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Analysis Report

Lancaster Laboratories Sample No. WW 4708863

GP-1-W-54-060209 Grab Water
Facility# 90917 CETR
5280 Hopyard-Pleasanton T0600100345 GP-1
Collected:02/09/2006 13:35 by RR

Account Number: 10880

Submitted: 02/11/2006 11:05
Reported: 02/24/2006 at 10:44
Discard: 03/27/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP154

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	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.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	1.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Trial#	Analysis Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/14/2006 09:42	Martha L Seidel	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/20/2006 22:44	Dawn M Harle	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/14/2006 09:42	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/20/2006 22:44	Dawn M Harle	1

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 02/24/06 at 10:44 AM

Group Number: 977908

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: 06044A02B	Sample number(s): 4708858-4708860							
TPH-GRO - Soils	N.D.	1.0	mg/kg	92		67-119		
Batch number: 06045A16A	Sample number(s): 4708861-4708863							
TPH-GRO - Waters	N.D.	50.	ug/l	94	95	70-130	2	30
Batch number: A060451AB	Sample number(s): 4708859							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	107		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	101		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	98		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	101		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	85		52-153		
Benzene	N.D.	0.5	ug/kg	101		77-119		
Toluene	N.D.	1.	ug/kg	98		81-116		
Ethylbenzene	N.D.	1.	ug/kg	98		82-115		
Ethanol	N.D.	100.	ug/kg	87		16-165		
Xylene (Total)	N.D.	1.	ug/kg	96		82-117		
Batch number: A060471AB	Sample number(s): 4708858,4708860							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	105		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	96		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	97		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	101		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	86		52-153		
Benzene	N.D.	0.5	ug/kg	94		77-119		
Toluene	N.D.	1.	ug/kg	91		81-116		
Ethylbenzene	N.D.	1.	ug/kg	91		82-115		
Ethanol	N.D.	100.	ug/kg	39		16-165		
Xylene (Total)	N.D.	1.	ug/kg	90		82-117		
Batch number: Q060471AA	Sample number(s): 4708858							
Ethylbenzene	N.D.	130.	ug/kg	102		82-115		
Batch number: Z060481AA	Sample number(s): 4708861							
Ethanol	N.D.	50.	ug/l	112		35-168		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	90		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	91		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	92		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	98		69-127		
Benzene	N.D.	0.5	ug/l	95		85-117		
Toluene	N.D.	0.5	ug/l	99		85-115		
Ethylbenzene	N.D.	0.5	ug/l	100		82-119		
Xylene (Total)	N.D.	0.5	ug/l	104		83-113		
Batch number: Z060511AA	Sample number(s): 4708862-4708863							
Ethanol	N.D.	50.	ug/l	110		35-168		

*- 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 C/O Cambria Group Number: 977908
Reported: 02/24/06 at 10:44 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	103		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	96		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	99		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	99		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	101		69-127		
Benzene	N.D.	0.5	ug/l	100		85-117		
Toluene	N.D.	0.5	ug/l	103		85-115		
Ethylbenzene	N.D.	0.5	ug/l	104		82-119		
Xylene (Total)	N.D.	0.5	ug/l	108		83-113		

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
Batch number: 06044A02B	Sample number(s): 4708858-4708860 UNSPK: P708723								
TPH-GRO - Soils	95	96	39-118	2	30				
Batch number: 06045A16A	Sample number(s): 4708861-4708863 UNSPK: P707785								
TPH-GRO - Waters	111		63-154						
Batch number: A060451AB	Sample number(s): 4708859 UNSPK: P709060								
Methyl Tertiary Butyl Ether	177*	41*	47-130	28	30				
di-Isopropyl ether	86	81	58-122	5	30				
Ethyl t-butyl ether	85	81	57-122	4	30				
t-Amyl methyl ether	98	86	58-119	10	30				
t-Butyl alcohol	(2)	(2)	51-134	16	30				
Benzene	86	78	59-120	9	30				
Toluene	75	62	49-132	15	30				
Ethylbenzene	80	71	50-127	11	30				
Ethanol	70	74	11-161	5	30				
Xylene (Total)	77	67	44-127	12	30				
Batch number: A060471AB	Sample number(s): 4708858,4708860 UNSPK: P708740								
Methyl Tertiary Butyl Ether	87	83	47-130	6	30				
di-Isopropyl ether	84	80	58-122	6	30				
Ethyl t-butyl ether	83	78	57-122	7	30				
t-Amyl methyl ether	85	81	58-119	6	30				
t-Butyl alcohol	80	75	51-134	7	30				
Benzene	85	78	59-120	9	30				
Toluene	82	77	49-132	8	30				
Ethylbenzene	81	76	50-127	7	30				
Ethanol	43	40	11-161	9	30				
Xylene (Total)	80	76	44-127	7	30				
Batch number: Q060471AA	Sample number(s): 4708858 UNSPK: P708511								
Ethylbenzene	112	108	50-127	3	30				
Batch number: Z060481AA	Sample number(s): 4708861 UNSPK: P708823								
Ethanol	106	105	34-161	1	30				
Methyl Tertiary Butyl Ether	97	97	69-127	0	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 C/O Cambria Group Number: 977908
Reported: 02/24/06 at 10:44 AM

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
di-Isopropyl ether	93	93	75-130	0	30				
Ethyl t-butyl ether	92	92	78-119	1	30				
t-Amyl methyl ether	96	94	72-125	1	30				
t-Butyl alcohol	104	100	64-130	4	30				
Benzene	104	102	83-128	2	30				
Toluene	107	106	83-127	1	30				
Ethylbenzene	108	106	82-129	2	30				
Xylene (Total)	114	112	82-130	2	30				
Batch number: Z060511AA	Sample number(s): 4708862-4708863 UNSPK: P712857								
Ethanol	109	109	34-161	0	30				
Methyl Tertiary Butyl Ether	105	104	69-127	1	30				
di-Isopropyl ether	101	100	75-130	1	30				
Ethyl t-butyl ether	102	101	78-119	1	30				
t-Amyl methyl ether	101	100	72-125	1	30				
t-Butyl alcohol	101	101	64-130	0	30				
Benzene	109	108	83-128	0	30				
Toluene	112	111	83-127	0	30				
Ethylbenzene	113	113	82-129	1	30				
Xylene (Total)	116	116	82-130	0	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: 06044A02B

	Trifluorotoluene-F
4708858	29*
4708859	92
4708860	78
Blank	94
LCS	111
MS	98
MSD	98
Limits:	61-122

Analysis Name: TPH-GRO - Waters
Batch number: 06045A16A

	Trifluorotoluene-F
4708861	104
4708862	94
4708863	96
Blank	97
LCS	107
LCSD	102

*- 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 C/O Cambria Group Number: 977908
Reported: 02/24/06 at 10:44 AM

Surrogate Quality Control

MS 106

Limits: 63-135

Analysis Name: EPA SW 846/8260 - Soil
Batch number: A060451AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4708859	90	89	87	83
Blank	94	92	83	82
LCS	92	93	88	90
MS	91	89	83	88
MSD	91	93	84	89
Limits:	71-114	70-109	70-123	70-111

Analysis Name: EPA SW 846/8260 - Soil
Batch number: A060471AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4708858	85	83	113	99
4708860	87	84	94	83
Blank	92	89	84	81
LCS	91	91	87	88
MS	90	86	87	86
MSD	90	87	88	86
Limits:	71-114	70-109	70-123	70-111

Analysis Name: 8260 Master Scan (soil)
Batch number: Q060471AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	103	105	98	100
LCS	102	103	100	103
MS	120*	125*	116	118*
MSD	115*	117*	114	115*
Limits:	71-114	70-109	70-123	70-111

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z060481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4708861	102	95	98	101
Blank	99	94	100	101
LCS	99	96	101	102
MS	99	95	101	101
MSD	100	96	100	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z060511AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4708862	99	96	101	102
4708863	98	93	101	102

*- 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 C/O Cambria Group Number: 977908
Reported: 02/24/06 at 10:44 AM

Surrogate Quality Control

Blank	99	94	101	103
LCS	98	95	101	105
MS	99	96	101	104
MSD	98	95	101	104
Limits:	80-116	77-113	80-113	78-113

*- 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

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10880 Sample #: 470858-63 SCR#: 240553

MTI #61H-1959

grp 977908

Facility #: 9-0917 Pleasanton
Site Address: 5200 Hopyard Rd, Pleasanton
Chevron PM: D. Thurman Lead Consultant: Cambria
Consultant/Office: Cambria - Roseville
Consultant Prj. Mgr.: D. Herzog
Consultant Phone #: (916)677-3407 Fax #: (916)677-3687
Sampler: R. Rathlainen
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	5 Oxygenates	Lead 7420 ☐ 7421 ☐	Ethanol
GP-1@5'	S	N	5'	06 02 09	9:05	Y	X		1	X	X			X		X
GP-1@7'	S	N	7'	06 02 09	9:25	Y	X		1	X	X			X		X
GP-1@10'	S	N	10'	06 02 09	10:35	Y	X		1	X	X			X		X
GP-1@8'	W	N	8	06 02 09	10:30	Y	X		4	X	X			X		X
GP-1@36'	W	N	36	06 02 09	13:15	Y	X		3	X	X			X		X
GP-1@54'	W	N	54	06 02 09	13:35	Y	X		5	X	X			X		X

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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
TPHg, BTEX, MtBE, EtBE, DIPE, TAME, TBA, ethanol

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

	Date	Time	Received by:	Date	Time
Relinquished by:	2/10/06	11:00a			
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	2/11/06	1105
Temperature Upon Receipt 5.1 C°			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 limit of quantitation, 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 quatitated 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.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

916-677-3407

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 977699. Samples arrived at the laboratory on Friday, February 10, 2006. The PO# for this group is 99011184 and the release number is THURMAN.

Client Description			Lancaster Labs Number
GP-2-W-28-060208	Grab	Water	4707548
GP-2-W-51-060208	Grab	Water	4707549

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

Lancaster Laboratories

Analysis Report

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

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4707548

GP-2-W-28-060208 Grab Water
Facility# 90917 MTI# 61H-1959 CETR
5280 Hopyard - Pleasanton T0600100345 GP-2
Collected:02/08/2006 11:20 by LG

Account Number: 10880

Submitted: 02/10/2006 09:10
Reported: 02/21/2006 at 15:39
Discard: 03/24/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP228

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	110.	50.	ug/l	1
	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.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	22.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	0.7	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/13/2006 16:34	Steven A Skiles	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/17/2006 16:45	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/13/2006 16:34	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/17/2006 16:45	Ginelle L Feister	1

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 4707549

GP-2-W-51-060208 Grab Water
Facility# 90917 MTI# 61H-1959 CETR
5280 Hopyard - Pleasanton T0600100345 GP-2
Collected:02/08/2006 12:15 by LG

Account Number: 10880

Submitted: 02/10/2006 09:10
Reported: 02/21/2006 at 15:39
Discard: 03/24/2006

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678

GP251

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	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.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	2.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/13/2006 17:10	Steven A Skiles	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/17/2006 17:09	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/13/2006 17:10	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/17/2006 17:09	Ginelle L Feister	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 02/21/06 at 03:39 PM

Group Number: 977699

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: 06044A07A	Sample number(s): 4707548-4707549							
TPH-GRO - Waters	N.D.	50.	ug/l	96	94	70-130	2	30
Batch number: Z060481AA	Sample number(s): 4707548-4707549							
Ethanol	N.D.	50.	ug/l	112		35-168		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	90		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	91		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	92		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	98		69-127		
Benzene	N.D.	0.5	ug/l	95		85-117		
Toluene	N.D.	0.5	ug/l	99		85-115		
Ethylbenzene	N.D.	0.5	ug/l	100		82-119		
Xylene (Total)	N.D.	0.5	ug/l	104		83-113		

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
Batch number: 06044A07A	Sample number(s): 4707548-4707549 UNSPK: P707747								
TPH-GRO - Waters	101		63-154						
Batch number: Z060481AA	Sample number(s): 4707548-4707549 UNSPK: P708823								
Ethanol	106	105	34-161	1	30				
Methyl Tertiary Butyl Ether	97	97	69-127	0	30				
di-Isopropyl ether	93	93	75-130	0	30				
Ethyl t-butyl ether	92	92	78-119	1	30				
t-Amyl methyl ether	96	94	72-125	1	30				
t-Butyl alcohol	104	100	64-130	4	30				
Benzene	104	102	83-128	2	30				
Toluene	107	106	83-127	1	30				
Ethylbenzene	108	106	82-129	2	30				
Xylene (Total)	114	112	82-130	2	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.

*- 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 C/O Cambria Group Number: 977699
Reported: 02/21/06 at 03:39 PM

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 06044A07A

	Trifluorotoluene-F
4707548	95
4707549	92
Blank	94
LCS	116
LCSD	113
MS	136*
Limits:	63-135

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z060481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4707548	102	96	100	100
4707549	100	94	100	100
Blank	99	94	100	101
LCS	99	96	101	102
MS	99	95	101	101
MSD	100	96	100	101
Limits:	80-116	77-113	80-113	78-113

*- 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

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 10880 Sample #: 4707548-49 SCR#: 240529

MTI #611H-1959

977699

Facility #: 9-0917 Pleasanton
Site Address: 5280 Hopyard Rd., Pleasanton, CA
Chevron PM: D Thurman Lead Consultant: Cambria
Consultant/Office: Roseville
Consultant Prj. Mgr.: D Herzog
Consultant Phone #: 9166773407 Fax #: 916-677-3687
Sampler: L. Gearhart
Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 ☐ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☐ Silica Gel Cleanup	8260 full scan	Oxygenates (5)	Lead 7420 ☐ 7421 ☐	Ethanol					
GP-2@28'	H2O		28	060208	1120	Yes			4	X	X			X		X					
GP-2@51'	H2O		51	060208	1215	yes			4	x	x			x		x					

Comments / Remarks

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

	Date	Time		Date	Time
Relinquished by:	2/9/06	1630	Received by: FED-EX	2/9/06	1630
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS (FedEx) Other			Received by: Kathy Binkley	Date 2-10-06	Time 0910
Temperature Upon Receipt 4.3° C°			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
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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 limit of quantitation, 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 quatitated 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.

Lancaster Laboratories

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

916-630-1855

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 976991. Samples arrived at the laboratory on Saturday, February 04, 2006. The PO# for this group is 99011184 and the release number is MTI.

Client Description			Lancaster Labs Number
GP-5-S-5-060202	Grab	Soil	4703727
GP-5-S-10-060202	Grab	Soil	4703728
GP-5-W-060202	Grab	Water	4703729
GP-4-S-5-060202	Grab	Soil	4703730
GP-4-S-10-060202	Grab	Soil	4703731
GP-4-W-060202	Grab	Water	4703732
GP-2-S-3-060202	Grab	Soil	4703733
GP-2-S-5-060202	Grab	Soil	4703734
GP-2-S-10-060202	Grab	Soil	4703735
GP-3-S-5-060202	Grab	Soil	4703736
GP-3-S-10-060202	Grab	Soil	4703737
GP-3-W-060202	Grab	Water	4703738

ELECTRONIC COPY TO Cambria Environmental Attn: Jami Shaffer

Lancaster Laboratories

Analysis Report

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

Respectfully Submitted,

Lawrence M. Taylor
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. SW 4703727

GP-5-S-5-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-5
Collected:02/02/2006 11:35 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP-55

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 01:10	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/06/2006 23:51	Nicholas R Rossi	0.99
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2006 23:51	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2006 20:21	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:10	Larry E Bevins	n.a.

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. SW 4703728

GP-5-S-10-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-5
Collected:02/02/2006 11:58 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP510

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 01:46	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 00:14	Nicholas R Rossi	0.99
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 00:14	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2006 20:25	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:15	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4703729

GP-5-W-060202 Grab Water
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-5
Collected:02/02/2006 12:05 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP5--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	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. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 3.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	1.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/07/2006 12:30	Linda C Pape	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/10/2006 12:24	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/07/2006 12:30	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2006 12:24	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. SW 4703730

GP-4-S-5-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-4
Collected:02/02/2006 12:35 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP45-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 02:23	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 00:37	Nicholas R Rossi	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 00:37	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2006 20:29	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:19	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 4703731

GP-4-S-10-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-4
Collected:02/02/2006 12:56 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP410

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 03:00	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 10:37	Angela D Sneeringer	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 10:37	Angela D Sneeringer	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2006 20:34	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:23	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. WW 4703732

GP-4-W-060202 **Grab** **Water**
Facility# 90917 **CETR**
5280 Hopyard Rd **T0600100345 GP-4**
Collected:02/02/2006 13:02 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP4--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	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. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 3.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/07/2006 12:59	Linda C Pape	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/10/2006 12:48	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/07/2006 12:59	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2006 12:48	Ginelle L Feister	1

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Analysis Report

Lancaster Laboratories Sample No. SW 4703733

GP-2-S-3-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-2
Collected:02/02/2006 13:40 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP23-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 03:36	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 10:59	Angela D Sneeringer	0.99
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 10:59	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2006 20:38	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:28	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 4703734

GP-2-S-5-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-2
Collected:02/02/2006 13:47 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP25-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 04:13	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 11:22	Angela D Sneeringer	0.99
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 11:22	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2006 20:44	Nicholas R Rossi	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:34	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 4703735

GP-2-S-10-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-2
Collected:02/02/2006 14:00 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP210

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 04:50	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 11:44	Angela D Sneeringer	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 11:44	Angela D Sneeringer	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/07/2006 10:03	Angela D Sneeringer	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:39	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 4703736

GP-3-S-5-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-3
Collected:02/02/2006 15:02 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP35-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.10	mg/kg	1
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 05:26	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 12:07	Angela D Sneeringer	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 12:07	Angela D Sneeringer	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/07/2006 10:05	Angela D Sneeringer	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:43	Larry E Bevins	n.a.

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Analysis Report

Lancaster Laboratories Sample No. SW 4703737

GP-3-S-10-060202 Grab Soil
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-3
Collected:02/02/2006 15:20 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP310

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
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.					
03983	EPA SW 846/8260 - Soil					
06089	Ethanol	64-17-5	N.D.	0.099	mg/kg	0.99
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
05466	Toluene	108-88-3	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	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01725	TPH-GRO - Soils	N. CA LUFT GRO	1	02/07/2006 06:03	Christopher A Guessford	25
03983	EPA SW 846/8260 - Soil	SW-846 8260B	1	02/07/2006 14:01	Angela D Sneeringer	0.99
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2006 14:01	Angela D Sneeringer	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/07/2006 13:38	Angela D Sneeringer	n.a.
01150	GC - Bulk Soil Prep	SW-846 5035	1	02/06/2006 12:50	Larry E Bevins	n.a.

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. WW 4703738

GP-3-W-060202 Grab Water
Facility# 90917 CETR
5280 Hopyard Rd T0600100345 GP-3
Collected:02/02/2006 15:25 by RR

Account Number: 10880

Submitted: 02/04/2006 10:15
Reported: 02/14/2006 at 18:15
Discard: 03/17/2006

ChevronTexaco C/O Cambria
4111 Citrus Avenue
Suite 12
Rocklin CA 95677

GP3--

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01728	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
	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.					
06059	BTEX+5 Oxygenates+ETOH					
01587	Ethanol	64-17-5	N.D.	50.	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/l	1
02014	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

State of California Lab Certification No. 2116
Trip blank vials were not received by the laboratory for this sample group.

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 Date and Time	Analyst	Dilution Factor
01728	TPH-GRO - Waters	N. CA LUFT GRO	1	02/07/2006 13:28	Linda C Pape	1
06059	BTEX+5 Oxygenates+ETOH	SW-846 8260B	1	02/10/2006 13:11	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/07/2006 13:28	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/10/2006 13:11	Ginelle L Feister	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ChevronTexaco C/O Cambria
Reported: 02/14/06 at 06:15 PM

Group Number: 976991

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: 06037A31A	Sample number(s): 4703727-4703728,4703730-4703731,4703733-4703737							
TPH-GRO - Soils	N.D.	1.0	mg/kg	82		67-119		
Batch number: 06038A16A	Sample number(s): 4703729,4703732,4703738							
TPH-GRO - Waters	N.D.	50.	ug/l	95	96	70-130	1	30
Batch number: A060371AA	Sample number(s): 4703727-4703728,4703730							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	110		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	107		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	102		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	105		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	83		52-153		
Benzene	N.D.	0.5	ug/kg	106		77-119		
Toluene	N.D.	1.	ug/kg	94		81-116		
Ethylbenzene	N.D.	1.	ug/kg	94		82-115		
Ethanol	N.D.	100.	ug/kg	85		16-165		
Xylene (Total)	N.D.	1.	ug/kg	92		82-117		
Batch number: A060371AB	Sample number(s): 4703731,4703733-4703737							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/kg	110		75-125		
di-Isopropyl ether	N.D.	1.	ug/kg	107		70-129		
Ethyl t-butyl ether	N.D.	1.	ug/kg	102		62-131		
t-Amyl methyl ether	N.D.	1.	ug/kg	105		63-129		
t-Butyl alcohol	N.D.	20.	ug/kg	83		52-153		
Benzene	N.D.	0.5	ug/kg	106		77-119		
Toluene	N.D.	1.	ug/kg	94		81-116		
Ethylbenzene	N.D.	1.	ug/kg	94		82-115		
Ethanol	N.D.	100.	ug/kg	85		16-165		
Xylene (Total)	N.D.	1.	ug/kg	92		82-117		
Batch number: Z060411AA	Sample number(s): 4703729,4703732,4703738							
Ethanol	N.D.	50.	ug/l	115		35-168		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	92		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	94		67-130		
Ethyl t-butyl ether	N.D.	0.5	ug/l	92		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	91		79-113		
t-Butyl alcohol	N.D.	5.	ug/l	81		69-127		
Benzene	N.D.	0.5	ug/l	94		85-117		
Toluene	N.D.	0.5	ug/l	101		85-115		
Ethylbenzene	N.D.	0.5	ug/l	95		82-119		
Xylene (Total)	N.D.	0.5	ug/l	98		83-113		

Sample Matrix Quality Control

*- 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 C/O Cambria Group Number: 976991

Reported: 02/14/06 at 06:15 PM

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
Batch number: 06037A31A	Sample number(s): 4703727-4703728,4703730-4703731,4703733-4703737 UNSPK: 4703737								
TPH-GRO - Soils	90	84	39-118	7	30				
Batch number: 06038A16A	Sample number(s): 4703729,4703732,4703738 UNSPK: P703584								
TPH-GRO - Waters	116		63-154						
Batch number: A060371AA	Sample number(s): 4703727-4703728,4703730 UNSPK: P703675								
Methyl Tertiary Butyl Ether	97	99	47-130	1	30				
di-Isopropyl ether	95	103	58-122	7	30				
Ethyl t-butyl ether	91	96	57-122	5	30				
t-Amyl methyl ether	94	96	58-119	1	30				
t-Butyl alcohol	79	88	51-134	9	30				
Benzene	91	102	59-120	10	30				
Toluene	81	90	49-132	9	30				
Ethylbenzene	81	90	50-127	10	30				
Ethanol	82	94	11-161	13	30				
Xylene (Total)	80	89	44-127	10	30				
Batch number: A060371AB	Sample number(s): 4703731,4703733-4703737 UNSPK: P703675								
Methyl Tertiary Butyl Ether	97	99	47-130	1	30				
di-Isopropyl ether	95	103	58-122	7	30				
Ethyl t-butyl ether	91	96	57-122	5	30				
t-Amyl methyl ether	94	96	58-119	1	30				
t-Butyl alcohol	79	88	51-134	9	30				
Benzene	91	102	59-120	10	30				
Toluene	81	90	49-132	9	30				
Ethylbenzene	81	90	50-127	10	30				
Ethanol	82	94	11-161	13	30				
Xylene (Total)	80	89	44-127	10	30				
Batch number: Z060411AA	Sample number(s): 4703729,4703732,4703738 UNSPK: P702563								
Ethanol	118	122	34-161	3	30				
Methyl Tertiary Butyl Ether	91	93	69-127	2	30				
di-Isopropyl ether	94	97	75-130	2	30				
Ethyl t-butyl ether	92	94	78-119	2	30				
t-Amyl methyl ether	92	95	72-125	3	30				
t-Butyl alcohol	80	81	64-130	0	30				
Benzene	99	101	83-128	2	30				
Toluene	106	108	83-127	1	30				
Ethylbenzene	100	102	82-129	2	30				
Xylene (Total)	102	103	82-130	1	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: 06037A31A
Trifluorotoluene-F

*- 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 C/O Cambria
Group Number: 976991
Reported: 02/14/06 at 06:15 PM

Surrogate Quality Control

4703727	78
4703728	84
4703730	83
4703731	81
4703733	84
4703734	82
4703735	84
4703736	80
4703737	83
Blank	99
LCS	95
MS	89
MSD	83
Limits:	61-122

Analysis Name: TPH-GRO - Waters
Batch number: 06038A16A

	Trifluorotoluene-F
4703729	108
4703732	112
4703738	111
Blank	109
LCS	109
LCSD	118
MS	112
Limits:	63-135

Analysis Name: EPA SW 846/8260 - Soil
Batch number: A060371AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4703727	96	87	79	79
4703728	96	87	80	81
4703730	91	82	86	80
Blank	91	85	80	81
LCS	93	90	83	91
MS	92	87	83	90
MSD	92	85	83	90
Limits:	71-114	70-109	70-123	70-111

Analysis Name: EPA SW 846/8260 - Soil
Batch number: A060371AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4703731	100	91	79	79
4703733	99	89	81	78
4703734	100	90	79	79
4703735	93	83	88	76
4703736	99	89	81	77
4703737	99	96	78	82
Blank	96	89	78	81
LCS	93	90	83	91
MS	92	87	83	90

*- 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 C/O Cambria Group Number: 976991
Reported: 02/14/06 at 06:15 PM

Surrogate Quality Control

MSD	92	85	83	90
Limits:	71-114	70-109	70-123	70-111

Analysis Name: BTEX+5 Oxygenates+ETOH
Batch number: Z060411AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4703729	93	88	91	87
4703732	93	86	88	84
4703738	93	86	93	85
Blank	88	84	96	87
LCS	86	84	95	91
MS	88	84	94	93
MSD	87	85	95	93
Limits:	80-116	77-113	80-113	78-113

*- 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.

Lancaster Laboratories
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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
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

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. All other results are reported on an as-received basis.

U.S. EPA CLP 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
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 sample 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.

Measurement uncertainty values, as applicable, are available upon request.

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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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco C/O Cambria
2000 Opportunity Drive
Suite 110
Roseville CA 95678
916-677-3407

Prepared by:
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 977934. Samples arrived at the laboratory on Saturday, Feb 11 2006.
The project for this group is 90917.
The PO# for this sample group is 99011184.
The release number for this sample group is THURMAN.

Sample No.	Collected	Client Description	
4708987	2/9/2006	SP-S-060209	Composite Soil
		Facility# 90917	CETR
		5280 Hopyard-Pleasanton	T0600100345 SP

1 COPY TO	IWM, Inc.	Attn: Jay DeLeon
ELECTRONIC COPY TO	Cambria Environmental	Attn: Jami Shaffer

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

Respectfully Submitted,

Jenifer E. Hess
Manager

ChevronTexaco C/O Cambria
Project: 5280 Hopyard-Pleasanton T0600100345 SP
SDG:

Report Date: 2/22/2006 19:56
Submit Date: 2/11/2006 11:05

Analysis Name	Units	4708987 SP-S-060 Result	MDL
Lead	mg/kg	8.00	0.780
TPH-GRO - Soils	mg/kg	N.D.	1.0
Benzene	mg/kg	N.D.	0.005
Toluene	mg/kg	N.D.	0.005
Ethylbenzene	mg/kg	N.D.	0.005
Total Xylenes	mg/kg	N.D.	0.02
MTBE	mg/kg	N.D.	0.05

CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
4708987	**SP-S-060209**	**Composite Soil**				
06955	Lead	SW-846 6010B	1	2/15/06 0910	Joanne M Gates	1
01726	TPH-GRO - Soils	N. CA LUFT GRO	1	2/15/06 0724	Corie L Hilyer	25
02160	BTEX/MTBE	SW-846 8021B	1	2/15/06 0724	Corie L Hilyer	25
01150	GC - Bulk Soil Prep	SW-846 5035	1	2/14/06 0235	Jesse L Mertz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	2/14/06 2005	Annamaria Stipkovits	1

Client Name: ChevronTexaco C/O Cambria Group Number: 977934

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: 06037A31B	Sample number(s): 4708987							
TPH-GRO - Soils	N.D.	1.0	mg/kg	82		67-119		
Benzene	N.D.	0.005	mg/kg	94		76-118		
Toluene	N.D.	0.005	mg/kg	89		72-115		
Ethylbenzene	N.D.	0.005	mg/kg	95		77-115		
Total Xylenes	N.D.	0.02	mg/kg	95		78-115		
MTBE	N.D.	0.05	mg/kg	96		71-118		
Batch number: 060455708001	Sample number(s): 4708987							
Lead	N.D.	0.780	mg/kg	96		80-120		

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
Batch number: 06037A31B	Sample number(s): 4708987 UNSPK: P703737								
TPH-GRO - Soils	90	84	39-118	7	30				
Benzene	100	99	52-135	1	30				
Toluene	91	90	59-129	1	30				
Ethylbenzene	97	98	56-132	1	30				
Total Xylenes	98	98	54-134	0	30				
MTBE	105	100	52-141	5	30				
Batch number: 060455708001	Sample number(s): 4708987 UNSPK: P708975 BKG: P708975								
Lead	115	159*	75-125	24*	20	5.77	7.19	22* (1)	20

Surrogate Quality Control

* - 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.

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: 06037A31B

	Trifluorotoluene-F	Trifluorotoluene-P
4708987	82	86
Blank	84	92
LCS	95	96
MS	89	81
MSD	83	83
Limits:	61-122	55-124

* - 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.

QC Comment

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.

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

4708987 SP-S-060209 Composite Soil

State of California Lab Certification No. 2116

ATTACHMENT D

Standard Field Procedures

CAMBRIA

STANDARD FIELD PROCEDURES FOR CONE PENETROMETER TESTING AND SAMPLING

This document describes Cambria Environmental Technology's standard field methods for Cone Penetrometer Testing (CPT) and direct-push soil and groundwater sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines.

Use of CPT for logging and soil and groundwater sampling requires separate borings. Typically an initial boring is advanced to estimate soil and groundwater characteristics as described below. To collect soil samples a separate boring must be advanced using a soil sampling device. If groundwater samples are collected, another separate boring must be advanced using a groundwater sampling device. Specific field procedures are summarized below.

Cone Penetrometer Testing (CPT)

Cone Penetrometer Testing is performed by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). Cone Penetrometer Tests (CPT) are carried out by pushing an integrated electronic piezocone into the subsurface. The piezocone is pushed using a specially designed CPT rig with a force capacity of 20 to 25 tons. The piezocones are capable of recording the following parameters:

Tip Resistance (Qc)
Sleeve Friction (Fs)
Pore Water Pressure (U)
Bulk Soil Resistivity (rho) - with an added module

A compression cone is used for each CPT sounding. Piezocones with rated load capacities of 5, 10 or 20 tons are used depending on soil conditions. The 5 and 10 ton cones have a tip area of 10 sq. cm. and a friction sleeve area of 150 sq. cm. The 20 ton cones have a tip area of 15 sq. cm. and a friction sleeve area of 250 sq. cm. A pore water pressure filter is located directly behind the cone tip. Each of the filters is saturated in glycerin under vacuum pressure prior to penetration. Pore Pressure Dissipation Tests (PPDT) are recorded at 5 second intervals during pauses in penetration. The equilibrium pore water pressure from the dissipation test can be used to identify the depth to groundwater.

The measured parameters are printed simultaneously on a printer and stored on a computer disk for future analysis. All CPTs are carried out in accordance with ASTM D-3441. A complete set of baseline readings is taken prior to each sounding to determine any zero load offsets.

The inferred stratigraphic profile at each CPT location is included on the plotted CPT logs. The stratigraphic interpretations are based on relationships between cone bearing (Qc) and friction ratio (Rf). The friction ratio is a calculated parameter (Fs/Qc) used in conjunction with the cone bearing to identify the soil type. Generally, soft cohesive soils have low cone bearing pressures and high friction ratios. Cohesionless soils (sands) have high cone bearing pressures and low friction ratios. The classification of soils is based on correlations developed by Robertson et al (1986). It is not always possible to clearly identify a soil type based on Qc and Rf alone. Correlation with existing soils information and analysis of pore water pressure measurements should also be used in determining soil type.

CPT and sampling equipment are steam-cleaned or washed prior to work and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent. Groundwater samples are decanted into appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

After the CPT probes are removed, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate groundwater depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

Soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon[7] tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector measures volatile hydrocarbon vapor concentrations in the bag=s headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy, and groundwater depth to select soil samples for analysis.

Grab Groundwater Sampling

Groundwater samples are collected from the open borehole using bailers, advancing disposable Tygon[7] tubing into the borehole and extracting groundwater using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

CAMBRIA

STANDARD FIELD PROCEDURES FOR HAND-AUGER SOIL BORINGS

This document describes Cambria Environmental Technology's standard field methods for drilling and sampling soil borings using a hand-auger. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Boring and Sampling

Hand-auger borings are typically drilled using a hand-held bucket auger to remove soil to the desired sampling depth. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the augered hole. The vertical location of each soil sample is determined using a tape measure. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Augering and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are collected from the open borehole using bailers. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

The borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

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