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Alameda County
Environmental Health

Ian Robb Project Manager Marketing Business Unit Chevron Environmental Management Company 6001 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 842-9496 Fax (925) 842-8370 lanrobb@chevron.com

RE:	Chevron S	Service Stati						
	Address _	2259	First.	Street	Liverw	iore, CA	 	-
Thougo	raviawad th	is attached i	anort dated	03/27	108			

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 Conestoga-Rovers & Associates (CRA) 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,

Ian Robb

Attachment: Report



5900 Hollis Street, Suite A, Emeryville, Calfornia 94608 Telephone: 510·420·0700 Facsimile: 510·420·9170

www.CRAworld.com

March 27, 2008

Mr. Jerry Wickham Alameda County Environmental Health Services (ACEHS) 1131 Harbor Bay Parkway Alameda, CA 94502

Re: Subsurface Investigation Report and Well Installation Workplan

Former Texaco Service Station (Chevron Site # 307233) 2259 First Street Livermore, CA RO #2908

Dear Mr. Wickham:

On behalf of Chevron Environmental Management Company (Chevron), Conestoga-Rovers & Associates (CRA), is submitting this *Subsurface Investigation Report*, in response to ACEHS letters, dated August 22 and October 11, 2007 (Attachment A). The objective of the investigation was to further define and evaluate hydrocarbon impacts from previous Standard Oil service station activities. Our investigation results, conclusions and recommendations are presented below.

### SITE BACKGROUND

The former service station site is the location of Mills Square Park, owned by the City of Livermore and located on the east corner of First Street and North Livermore Avenue in Livermore, California. Topography around the site slopes gently to the north at an elevation of approximately 485 feet above mean sea level (Figure 1). The park consists of grass and trees with a concrete walkway.

Aerial photos indicate that the site was a retail service station prior to 1973. The earliest available aerial photograph was from 1959. This photo shows a station building located on the southern edge of the property and two dispenser islands located on the western portion of the property (Figure 2). The 1973 aerial photograph indicates that the station building and dispenser island had been removed and only a paved lot remained. By 1978, the property had been redeveloped as a park. The park remains in the same configuration as shown on the 1978 aerial photo.

### **CURRENT INVESTIGATION**

To investigate potential preferential migration pathways and to define the extent of residual hydrocarbons, CRA advanced cone penetration testing (CPT) borings CPT1 and CPT2 on North Livermore Avenue and soil borings SB6 through SB9 within the park. Shallow soil borings SSB1 through SSB11 were advanced to investigate the

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occurrence of lead in shallow soil. CRA also installed nested soil vapor probes VP1 through VP3 to evaluate risks from potential vapor intrusion into an adjacent building, and to determine if elevated levels of benzene are present in subsurface soil gases. Figure 2 illustrates the locations of these borings. CPT borings were advanced to approximately 55 feet below grade (fbg). Soil borings were advanced using Geoprobe<sup>®</sup> technology or with hollow-stem augers to depths ranging from 25 to 55 fbg. Nested soil vapor probes were installed at 5 and 10 fbg. Shallow soil samples for lead analysis were collected between 1 and 10 fbg using hand-augers and an air-knife-equipped vacuum truck. The investigation procedures and results are presented below.

**Project Personnel:** Ian Hull, Sarah McNaboe, Jonathan Williams and Erica Namba conducted all fieldwork under the supervision of California Professional Geologist Robert C. Foss, P.G. No. 7445.

**Permits**: Work was performed under Zone 7 Water Agency Permit No. 28001 and City of Livermore Encroachment Permit No. EN070478 (Attachment B).

**Drilling Companies**: Gregg Drilling & Testing, Inc. (Gregg) (C57 License No. 485165) advanced the CPT, GeoProbe® and soil borings and collected some of the shallow soil samples. RSI Drilling (RSI) (C57 License No. 802334) collected the remaining shallow soil samples and Vironex Environmental Field Services (Vironex) (C57 License No. 705927) installed the soil vapor probes.

Utility Clearance: Underground Service Alert (USA) contacted local utility providers to mark known utilities around proposed boring locations and a private utility locating company checked for additional subsurface utilities. The first 8 feet of each boring were cleared using hand-augers or an air-knife-equipped vacuum truck.

CPT Borings: CPT borings CPT1 and CPT2 were each advanced to 55 fbg. Due to miscommunication with field workers, the proposed scope of work to advance these borings to approximately 80 fbg and collect multiple grab groundwater samples from potential water-bearing zones was not completed. This was relayed to ACEHS in a phone conversation on March 13, 2008. During that conversation, ACEHS requested CRA submit the subsurface investigation report before determining if completion of the original scope of work is necessary. CRA collected grab groundwater samples from first encountered groundwater at approximately 27 fbg. Soil samples were collected at the capillary fringe zone, at intervals of distinct lithologic change and immediately below signs of possible hydrocarbon impact. Soil samples were screened for organic vapors using a photoionization detector (PID). Upon completion, the borings were backfilled to grade with Portland type I/II grout using a tremie pipe and patched to match the existing surface. Gregg's CPT report is presented as Attachment C.

**Soil Borings**: Soil borings SB6 through SB9 were advanced within Mills Square Park to depths ranging from 25 to 55 fbg. SB9 was advanced using GeoProbe® technology to 55 fbg. However, due to the technology, "smeared" silt and clay along the borehole wall prevented the infiltration of groundwater. SB6, SB7 and SB8



were advanced using hollow-stem augers to avoid inhibiting groundwater infiltration and to ensure greater accuracy in determination of the groundwater interface. CRA geologists logged soil continuously in the field using the Universal Soil Classification System (USCS) ASTM D-2487 guidelines and screened soils with a photo-ionization detector (PID). Soil samples were collected for laboratory analysis at 10 foot intervals, starting from 5 fbg to the total depth of each boring. One extra sample was collected from SB8 where PID screening, visible-staining or odor suggested hydrocarbon impact.

Groundwater Sampling: Groundwater was encountered at depths ranging from 22 to 34 fbg. Grab groundwater samples were collected from each boring, except SB9. Due to an insufficient amount of groundwater in SB8, total petroleum hydrocarbons as motor oil (TPHmo) analysis was not possible. Samples were labeled, placed on ice and transported to a Chevron-approved laboratory under proper chain of custody. Upon completion, the borings were backfilled to grade with Portland type I/II grout using a tremie pipe and patched to match the existing surface. Lithologic logs showing sediment lithology, sample depths and soil vapor probe installation details are presented as Attachment D.

Shallow Soil Borings (Investigation of Lead in Shallow Soil): Shallow soil borings SSB1 through SSB11 were advanced to 10 fbg, or until refusal, to investigate the occurrence of elevated lead concentrations in shallow soil. Air-knife-equipped vacuum trucks were used due to coarse gravels in the borings. Disturbed soil samples were collected using hand-augers at approximately 1.5, 3, 5 and 10 fbg. When large rocks or caving of gravels occurred above 10 fbg, CRA collected samples at the depth of refusal. Hand-auger cuttings were logged continuously in the field using USCS ASTM D-2487 guidelines and were screened with a PID. Soil samples were analyzed for total lead by EPA Method 6010B. No significant staining, odor or elevated PID readings were observed in any of the soil samples except for samples from boring SSB2. Samples from SSB2 at 2.5, 4.5, and 8 fbg were also analyzed for hydrocarbon constituents as outlined below based on slightly elevated PID readings.

Soil Vapor Probe Construction and Installation: Vapor points VP1 through VP3 were installed as nested soil vapor probes at depths of 5 and 10 fbg. Soil vapor probes were constructed using a ¼-inch diameter, 6-inch stainless steel screen attached to ¼-inch Teflon tubing. Each probe was placed at the desired depth and surrounded by a 12-inch sand pack. Each probe was isolated from the others by approximately 6-inches of dry bentonite and then a hydrated bentonite grout mixture. Soil vapor points were finished at the surface using a traditional well vault. Borings for VP1 and VP3 hit refusal at 8.5 fbg and the soil vapor probes were installed by pushing a ½-inch rod through coarse gravels to 10 fbg. The rod was filled with a filter pack of Monterey Sand #2/12, then the rod was removed. CRA personnel continuously logged the soil lithology and collected soil samples for laboratory analysis at 4.5 fbg and the bottom of the boring. CRA personnel collected one undisturbed sample for physical parameter analyses using a slide-hammer sampler. Soil vapor probes were installed



according to the Department of Toxic Substances Control (DTSC) Advisory-Active Soil Gas Investigations guidance document, dated January 28, 2003.

Soil Vapor Sampling: A closed circuit system was created by attaching a Summa™ canister to a sampling manifold prior to connecting to the soil vapor probe. The sampling manifold consists of a sediment filter, gauges and a flow restrictor. A purge canister and sample canister are connected to the manifold and a shut-in test was performed to determine if there are any leaks within the system prior to connecting to the soil vapor probe. Once completed, the system was connected to the soil vapor probe and an appropriate volume of stagnant air was purged so the sample was representative of actual soil concentrations. After purging, the sample SUMMA™ canister valve was opened and the vacuum of the Summa™ canister was used to draw the soil vapor through the flow controller until a negative pressure of approximately 5-inches of mercury (Hg) was observed on the vacuum gauge.

In accordance with the DTSC *Advisory-Active Soil Gas Investigations* guidance document, dated January 28, 2003, leak testing was performed during sampling. Helium was used to determine if ambient air was entering the Summa<sup>™</sup> canisters during sampling by fully enclosing the sampling manifolds and introducing helium into the covered area. Helium was analyzed for by method ASTM D-1946. After sampling, the Summa<sup>™</sup> canisters were packaged and sent to the Air Toxics Laboratory under proper chain-of-custody for analysis.

**Lithology:** Silty sand with gravel was encountered from the surface to 9 fbg, underlain by sandy gravel with silt to approximately 18.5 fbg. Silty sand and sandy silt underlie the gravels to the total depth explored of 55 fbg. Lithologic logs showing sediment lithology, sample depths and soil vapor probe installation details are presented as Attachment D.

Chemical Analysis: Select soil and grab groundwater samples were analyzed for the following:

- TPHg, TPHd with silica gel cleanup and TPHmo by modified EPA Method 8015M;
- Benzene, toluene, ethylbenzene and xylenes (BTEX), fuel oxygenates methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), t-butyl alcohol (TBA), and lead scavengers 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB) by EPA Method 8260B;
- Lead by EPA Method 6010B and
- Physical parameters including moisture content, bulk density, total porosity, air- and water-filled porosity, organic carbon and effective permeability in one undisturbed soil sample.

Soil Vapor Chemical Analysis: Soil vapor samples were analyzed for the following:

• TPHg by EPA Method TO-3;



- BTEX, fuel oxygenates MTBE, DIPE, ETBE, TAME, TBA, and lead scavengers 1,2-DCA and EDB, naphthalene by EPA Method TO-15; and
- O<sub>2</sub>, CO<sub>2</sub>, CH<sub>4</sub> and helium by ASTM D-1946 (GC/TCD).

Tables 1, 2, and 3 summarize the analytic results for soil chemical and metal analyses. Tables 4 and 5 summarize the analytic results for groundwater. Table 6 summarizes the analytic results for soil vapor. Table 7 presents the soil physical parameters. The laboratory analytic reports are included as Attachment E.

**Soil and Water Disposal:** Soil and water produced during field activities were temporarily stored on site in properly labeled 55-gallon drums. Following review of analytic results, the soil and water will be transported to an appropriate Chevron-approved facility for disposal.

## **Hydrocarbon Distribution in Soil**

Soil samples from all soil borings (SB), one shallow soil boring (SSB) and all soil vapor borings (VP) were analyzed for petroleum hydrocarbons. TPHg was detected at a maximum of 530 milligrams per kilogram (mg/kg) in SB8 at 34.5 fbg. TPHd and TPHmo were detected at concentrations of 100 and 380 mg/kg, respectively, in CPT1 at 36 fbg. The maximum detection of benzene was 0.007 mg/kg in SB8 at 39.5 fbg.

ACEHS requested multiple shallow soil samples (less than 10 fbg) to be analyzed for lead, based on a previous 2004 Soils and Groundwater Investigation Report submitted by Fugro West, Inc. (Fugro) to the City of Livermore as part of the city's redevelopment process. Fugro detected lead at a maximum concentration of 3,700 mg/kg at 3 fbg. Samples collected from all soil borings were analyzed for lead, a total of 18 locations, ranging in depth from 1.5 to 39.5 fbg. Reported concentrations were compared to direct exposure screening levels (DESLs) as presented in the Regional Water Quality Control Board – San Francisco Bay Region's (RWQCB) Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, dated November 2007. Within the top 1.5 fbg, where the greatest potential for soil contact would occur, lead was detected at a maximum of 189 mg/kg, below the DESL of 260 mg/kg for residential exposure (Table K-1). Between 2.5 to 39.5 fbg, the maximum detection of lead was 616 mg/kg, below the DESL of 750 mg/kg for both commercial/industrial exposure (Table K-2) and construction/trench worker exposure (Table K-3).

## Hydrocarbon Distribution in Groundwater

Grab groundwater samples were collected from borings SB6 through SB9 and CPT1 and CPT2. Dissolved phase TPHg and TPHd were detected in all samples, with maximum detections in SB8 of 18,000 and



52,000 micrograms per liter ( $\mu$ g/L), respectively. TPHmo was not analyzed for in SB8 because sediment infiltration impeded groundwater collection. TPHmo was detected at 1,500  $\mu$ g/L in both CPT1 and CPT2. The highest detection of benzene was 14  $\mu$ g/L in CPT2.

### Hydrocarbon Distribution in Soil Vapor

Soil gas was collected from the three vapor points at depths of 5 and 10 fbg. ACEHS had requested that potential risk of vapor intrusion be evaluated for the building adjacent to the park and to determine if there were elevated benzene concentrations in soil gases in the subsurface near the former product lines. Benzene was not detected above method reporting limits in any samples. All other constituents were either below method detection limits or at least two orders of magnitude below shallow soil gas screening levels for evaluation of potential vapor intrusion concerns (Table E-2) for commercial/industrial land use. In VP1-5, oxygen was detected above atmospheric conditions at an anomalous 38%. According to Air Toxics LTD., the lab that performed the analysis, high oxygen concentrations can result when ambient air is introduced during the sampling process and can be compounded by dilution factors from canister pressurization. There is also the remote possibility of a high concentration of oxygen in the subsurface due to unknown sources. Table 6 summarizes the analytic results for soil vapor.

#### CONCLUSIONS

Based upon analysis of soil, grab groundwater and vapor samples collected beneath the site, residual hydrocarbons from former service station operations are present in subsurface soil and groundwater. The highest concentrations of hydrocarbon constituents detected in groundwater were of TPHg and TPHd. CRA proposes to install three groundwater monitoring wells to determine stabilized groundwater concentrations. Soil gas concentrations were collected to determine if potential risk existed from possible vapor intrusion into the building adjacent to the park and for any future development at the park. Benzene was not detected above the method detection limit, and all other carcinogens were at least three orders of magnitude below the soil gas screening levels. Due to the anomalous oxygen concentration, CRA will resample VP1 at 5 and 10 fbg to verify that the building is not potentially at risk from vapor intrusion.

#### PROPOSED SCOPE OF WORK

CRA proposes to advance three soil borings and construct monitoring wells in each, with screened intervals of 20 to 45 fbg. Groundwater flow direction is believed to be west to northwest based on data reported from four service stations in the area currently monitored quarterly. Fluctuations of groundwater elevation of approximately



10 to >30 feet have been reported in the monitoring wells at these nearby sites. Wells will be sampled for a minimum of four quarters, and if results are below water quality standards for Alameda County, the wells will be subsequently destroyed. The proposed well locations are illustrated on Figure 3. CRA will resample vapor probe VP1 at 5 and 10 fbg by the previously approved methods.

Site Health and Safety Plan: CRA will prepare a site health and safety plan to protect site workers. The plan will be reviewed and signed by all site workers/visitors and kept onsite at all times.

**Permits:** CRA will obtain well permits from the Zone 7 Water Agency, and any other required permits from the City of Livermore prior to field activities.

Underground Utility Location: CRA will contact USA to identify potential utilities in the vicinity of all proposed well locations. A private utility locator has already checked for additional subsurface utilities. Per Chevron safety protocols, each boring will be cleared to eight fbg using an air-knife equipped vacuum rig or hand auger.

**Soil Boring/Well Completion:** Three soil borings will be advanced with hollow stem augers and converted to monitoring wells MW-1 through MW-3 to depths of approximately 45 fbg. Wells will be completed using 2-inch diameter schedule 40 PVC, with a 0.020-inch slotted screened.

Sampling Protocol: Soil will be sampled at approximately 5 foot intervals and select samples will be analyzed to verify previous findings. Samples will be collected in clean brass liners placed in a split-spoon sampler driven into undisturbed sediments ahead of the augers. Groundwater samples will be collected from completed and properly developed wells. Soil samples will be properly sealed, placed on ice, and transported under proper chain of custody to a Chevron-approved, State-certified laboratory for analysis. CRA's standard field procedures for groundwater well installation are presented as Attachment F.

After completion of the newly installed wells, Chevron contractor Gettler-Ryan will be contacted to schedule development of the wells. Results of groundwater sample analyses of new wells will be reported as the first quarter monitoring and sampling report generated by Gettler-Ryan.

Chemical Analysis: Select soil and groundwater samples will be analyzed for the following:

- TPHg and TPHd with silica gel cleanup by modified EPA Method 8015M;
- Benzene, toluene, ethylbenzene and xylenes (BTEX), fuel oxygenates and lead scavengers 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB) by EPA Method 8260B.



**Soil Disposal:** Soil cuttings produced during field activities will be temporarily stored on site. Soil cuttings will be profiled for appropriate disposal. Following review of analytic results, the soil will be transported to a Chevron-approved facility for disposal.

**Reporting:** Upon completion of field activities and review of the analytic results, we will prepare an investigation report that, at a minimum, will contain:

- Descriptions of the drilling and sampling methods;
- Boring logs;
- Tabulated soil analytic results;
- Analytic reports and chain-of-custody forms;
- Disposal methods for soil and any produced water;
- An evaluation of the extent of hydrocarbons in the subsurface and;
- Conclusions and recommendations.

### **SCHEDULE**

CRA will proceed with the proposed scope of work upon receipt of written approval from the ACEHS. After approval, CRA will take approximately four to six weeks to obtain the necessary drilling permits and to schedule the subcontractors at their earliest availability. We will submit our investigation report approximately six to eight weeks after completion of field activities.

### **CLOSING**

We appreciate the opportunity to work with you on this project. Please contact Charlotte Evans at (510) 420-3351 or Ian Robb at (925) 842-9496 if you have any questions or comments regarding this work.

Sincerely,

Conestoga-Rovers & Associates

Charlotte Evans

Robert C. Foss, P.G. #7445

Robert C. Joss





Figures:

1 – Vicinity Map

2 – Site Plan

3 – Site Plan with Proposed Well Locations

Tables:

1 – Analytic Results for Soil: Hydrocarbons

2 – Analytic Results for Soil: Fuel Oxygenates

3 – Analytic Results for Soil: Metals

4 – Analytic Results for Groundwater: Hydrocarbons
5 – Analytic Results for Groundwater: Fuel Oxygenates

6 - Analytic Results for Soil Vapor

7 – Analytic Results for Soil Physical Parameters

Attachments:

A - Regulatory Correspondence

B – Permits

C – CPT Report (Gregg)

D – Boring Logs

E – Laboratory Analytical Reports

cc:

Mr. Ian Robb, Chevron Environmental Management Company, 6001 Bollinger Canyon Road,

San Ramon, CA 94583

Chris Davidson, City of Livermore Economic and Redevelopment, 1052 South Livermore

Avenue, Livermore, CA 94550

Wyman Hong, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

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**Chevron Service Station 30-7233** 

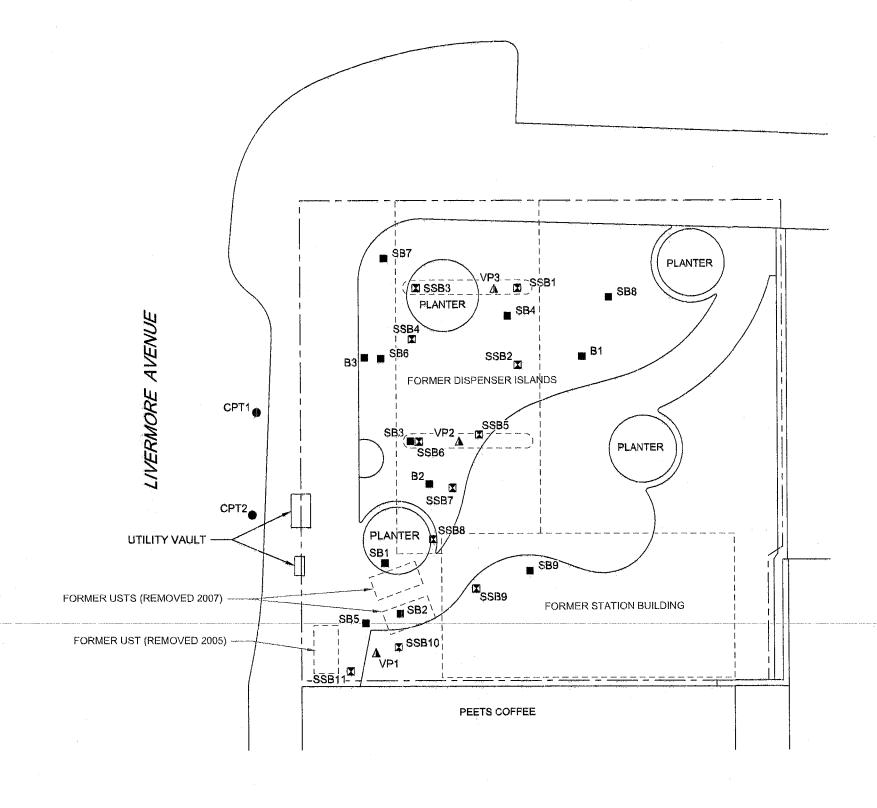
2259 First Street Livermore, California

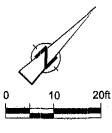


SCALE : 1" = 1/4 MILE

**Vicinity Map** 

## FIRST STREET





LEGEND

SB1 BORING LOCATION

B1 SOIL BORING LOCATION (FUGRO 2003)

CPT1 • CPT LOCATION

/P1 A VAPOR PROBE LOCATION

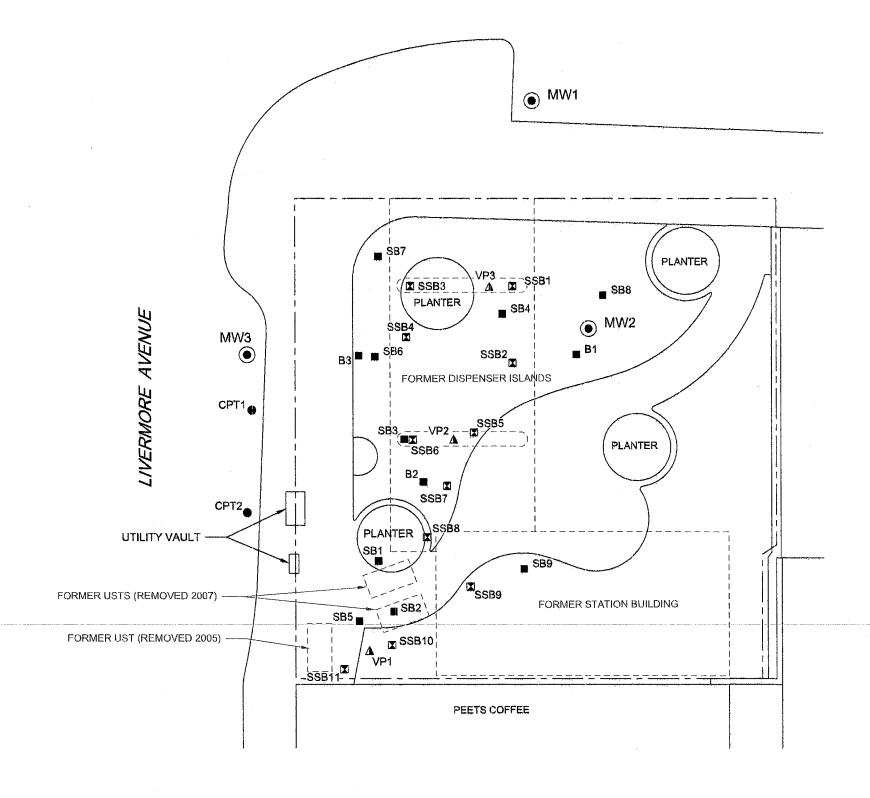
SSB1 M SHALLOW SOIL SAMPLE LOCATION

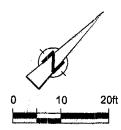
figure 2

SITE PLAN FORMER CHEVRON STATION 30-7233 2259 FIRST STREET Livermore, California



# FIRST STREET





## LEGEND

SB1 ■ SOIL BORING LOCATION

1 ■ SOIL BORING LOCATION (FUGRO 2003)

CPT LOCATION

VP1 A VAPOR PROBE LOCATION

SSB1 SHALLOW SOIL SAMPLE LOCATION

MW1 PROPOSED WELL LOCATION

figure 3

SITE PLAN WITH PROPOSED WELL LOCATIONS FORMER CHEVRON STATION 30-7233 2259 FIRST STREET Livermore, California



Table 1. Analytic Results for Soil: Hydrocarbons - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample	Sample	Sample	TPHg	TPHd	TPHmo	В	T	E	X
ID _	Date	Depth (fbg)	<u> </u>	Со	ncentrations repo	orted in milligrams	per kilogram - mg	/kg	
SB6	1/28/2008	1-8*	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB6	1/28/2008	9.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB6	1/28/2008	19.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB6	1/28/2008	24	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB7	1/28/2008	1-8*	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB7	1/30/2008	9.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB7	1/30/2008	19.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB7	1/30/2008	29.5	3.7	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB7	1/30/2008	34.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.001
SB8	1/28/2008	1-8*	<1.0	18	53	< 0.0005	< 0.0009	< 0.0009	< 0.000
SB8	1/31/2008	19.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
SB8	1/31/2008	29.5	1.2	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
SB8	1/31/2008	34.5	530	67	<10	< 0.027	< 0.054	0.10	< 0.054
SB8	1/31/2008	39.5	<1.0	<4.0	<10	0.007	0.002	0.015	0.007
SB9	1/28/2008	1-8*	1.3	13	32	< 0.0005	< 0.001	< 0.001	<0.00
SB9	1/29/2008	15	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
SB9	1/29/2008	27.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
SB9	1/29/2008	34.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
SB9	1/29/2008	46.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	<0,00
SB9	1/29/2008	54.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
CPT1	2/5/2008	21	<1.0	<4.0	· <10	< 0.0005	< 0.001	< 0.001	< 0.00
CPT1	2/5/2008	36	1	100	380	< 0.0005	< 0.001	< 0.001	<0.00
CPT2	2/4/2008	22	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
CPT2	2/4/2008	30	4.4	<b>27</b>	<10	< 0.026	< 0.052	1.1	0.18
CPT2	2/4/2008	35	1.3	<4.0	<12	0.0009	< 0.001	< 0.001	0.002
SSB2	2/1/2008	2.5	1.2	11	·, ·	< 0.0005	< 0.001	< 0.001	<0.00
SSB2	2/1/2008	4.5	<1.0	4.4	<u></u>	< 0.0005	< 0.001	< 0.001	< 0.00
SSB2	2/1/2008	8	<1.0	<4.0	J ·	<0.0005	< 0.001	< 0.001	<0.00
VP1	2/1/2008	4.5	<1.0	<4.0	<10	< 0.0005	< 0.001	< 0.001	< 0.00
VP1	2/1/2008	8	<1.0	<4.0	<10	< 0.0005	< 0.0009	< 0.0009	< 0.000

Table 1. Analytic Results for Soil: Hydrocarbons - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample ID	Sample Date	Sample Depth (fbg)	TPHg	TPHd (	TPHmo Concentrations report	B rted in milligrams	T per kilogram - mg	E ⁄kg	X
VP2 VP2	2/1/2008 2/1/2008	4.5 9.5	<1.0 <1.0	<b>25</b> <4.0	<b>54</b> <10	<0.0005 <0.0005	<0.0009 <0.0009	<0.0009 <0.0009	<0.0009 <0.0009
VP3 VP3	2/1/2008 2/1/2008	4.5 8	<b>1.0</b> <1.0	<4.0 <4.0	<10 <10	<0.0005 <0.0005	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001

### Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd) and motor oil (TPHmo) by EPA Method 8015M

Benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA Method 8260B

fbg = Feet below grade

<sup>\* =</sup> Cobbles made discrete soil sampling impossible in these locations, these samples represent a disturbed composite taken over a range of depths

 $<sup>&</sup>lt;_X$  = Not detected above method detection limit

Table 2. Analytic Results for Soil: Fuel Oxygenates - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Samp	ole Sample	Sample	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
ID		Depth (fbg)			ncentrations repor	ted in milligrams p	oer kilogram - mg	g/kg	<u> </u>
SBe		1-8*	< 0.0005	< 0.001	<0.001	< 0.001	< 0.019	< 0.001	< 0.001
SB		9.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB		19.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB		24	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.019	< 0.001	< 0.001
SB'	7 1/28/2008	1-8*	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB'		9.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.019	< 0.001	< 0.001
SB'	and the second s	19.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB'		29.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB		34.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB	8 1/28/2008	1-8*	< 0.0005	< 0.0009	< 0.0009	< 0.0009	< 0.019	< 0.0009	< 0.0009
SB	·	19.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB		29.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.019	< 0.001	< 0.001
SB	and the second s	34.5	< 0.027	< 0.054	< 0.054	< 0.054	<1.1	< 0.054	< 0.054
SB		39.5	0.039	< 0.001	< 0.001	< 0.001	0.034	< 0.001	< 0.001
SB	9 1/28/2008	1-8*	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB	•	15	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SB		27.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.022	< 0.001	< 0.001
SB		34.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.021	< 0.001	< 0.001
SB		46.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.022	< 0.001	< 0.001
SB		54.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.022	< 0.001	< 0.001
СРТ	71 2/5/2008	21	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
CPT		36	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
CPT	72 2/4/2008	22	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
CPT		30	< 0.026	< 0.052	< 0.052	< 0.052	<1.0	< 0.052	< 0.052
CP7		35	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.001
SSE		2.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.021	< 0.001	< 0.001
SSE		4.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.021	< 0.001	< 0.001
SSE		8	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.019	< 0.001	<0.001
VP	2/1/2008	4.5	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.020	< 0.001	< 0.00
VP		8	< 0.0005	<0.0009	< 0.0009	< 0.0009	< 0.019	< 0.0009	< 0.000
		1							

Table 2. Analytic Results for Soil: Fuel Oxygenates - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample	 Sample	Sample	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB				
ID_	Date	Depth (fbg)	Concentrations reported in milligrams per kilogram - mg/kg										
VP2	2/1/2008	4.5	<0.0005	<0.0009	<0.0009	<0.0009	<0.018	<0.0009	<0.0009				
VP2	2/1/2008	9.5	<0.0005	<0.0009	<0.0009	<0.0009	<0.019	<0.0009	<0.0009				
VP3	2/1/2008	4.5	<0.0005	<0.001	<0.001	<0.001	<0.019	<0.001	<0.001				
VP3	2/1/2008	8	<0.0005	<0.001	<0.001	<0.001	<0.019	<0.001	<0.001				

### Abbreviations/Notes:

Methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), t-butyl alcohol (TBA), dichlorethane (1,2-DCE), 1,2-dibromoethane (EDB) by EPA Method 8260B

1,2-

fbg = Feet below grade

<sup>\* =</sup> Cobbles made discrete soil sampling impossible in these locations; these samples represent a disturbed composite taken over a range of depths

 $<sup>&</sup>lt;_X$  = Not detected above method detection limit

Table 3. Analytic Results for Soil: Metals - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample	Sample	Sample Depth	Sample Height Above Road**	Lead		
ID .	Date	(fbg)	(Feet)	milligrams per kilogram (mg/k		
SSB1	2/1/2008	1.5	1.5	9.52		
SSB1	2/1/2008	2.5	0.5	52.90		
SSB1	2/1/2008	4.5	<u>-</u>	7.34		
SSB2	1/28/2008	1.5	1	17.40		
SSB2 SSB2	1/30/2008	2.5	0	40.60		
SSB2	1/30/2008	4.5	<u></u>	15.00		
SSB2 SSB2	1/30/2008	8		7.45		
SSB3	1/30/2008	1.5	1	42.80		
SSB3	2/6/2008	3		52.40		
SSB3	2/6/2008	5		42.20		
SSB4	2/1/2008	1.5	1	10.20		
SSB4	2/1/2008	2.5	0	517.00		
SSB4	2/1/2008	4.5	<del></del>	616.00		
SSB4	2/1/2008	9		90.80		
SSB5	2/6/2008	1.5	0.5	18.20		
SSB5	2/6/2008	3	<u></u>	47.50		
SSB5	2/6/2008	5.5		117.00		
SSB5	2/6/2008	7	<del></del>	63.50		
SSB6	2/6/2008	1.5	1	14.30		
SSB6	2/6/2008	3		98.90		
SSB7	2/6/2008	1.5	0.5	13.00		
SSB7	2/6/2008	3.5	<del></del>	9.73		
SSB7	2/6/2008	5.5		4.60		
SSB7	2/6/2008	7	<del></del>	3.97		
SSB8	2/1/2008	1.5	0.5	168.00		
SSB8	2/1/2008	4.5		160.00		
SSB8	2/1/2008	9.5		33.80		
				189.00		
SSB9 SSB9	2/6/2008 2/6/2008	1.5 3	1	15.00		
SSB9 SSB9	2/6/2008	5		6.24		
SSB9	2/6/2008	9		6.36		
SSB10	1/31/2008	1.5	1 · · · · · · · · · · · · · · · · · · ·	38.90		
SSB10	2/6/2008	3	je sa sa 🗘 sa	67.20		
SSB10	2/6/2008	5	en e	5.00		
SSB10	2/6/2008	9		9.34		
SSB11	2/6/2008	1.5		9.67		
SSB11	2/6/2008	3		4.86		
SSB11	2/6/2008	5		3.90		
SSB11	2/6/2008	8.5		5.62		
SB6	1/28/2008	1-8*	0 - 0.5	6.13		
SB6	1/30/2008	9.5	<del></del>	6.39		
SB6	1/30/2008	19.5		5.79		

Table 3. Analytic Results for Soil: Metals - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample	Sample	Sample Depth	Sample Height Above Road**	Lead
ID	Date	(fbg)	(Feet)	milligrams per kilogram (mg/kg)
SB6	1/30/2008	24		10.90
SB7	1/28/2008	1-8*	0 - 0.5	8.57
SB7	1/30/2008	9.5		8.30
SB7	1/30/2008	19.5		4.70
SB7	1/30/2008	29.5	<del></del>	10.50
SB7	1/30/2008	34.5		11.60
SB8	1/28/2008	1-8*	0 - 1	21.90
SB8	1/31/2008	19.5	<del></del> ·	10.30
SB8	1/31/2008	29.5		8.29
SB8	1/31/2008	34.5	r Geografia	7.86
SB8	1/31/2008	39.5		8.93
SB9	1/28/2008	1-8*	0 - 1.5	13.50
SB9	1/29/2008	15		6.36
SB9	1/29/2008	27.5	<del></del>	7.92
SB9	1/29/2008	34.5	··	12.30
SB9	1/29/2008	46.5		9.34
SB9	1/29/2008	54.5		5.77
VP1	2/1/2008	4.5		6.10
VP1	2/1/2008	8		9.03
VP2	2/1/2008	4.5		75.40
VP2	2/1/2008	9.5		15.60
VP3	2/1/2008	4.5		6.12
VP3	2/1/2008	8	<u></u> ,	4.22

### Abbreviations/Notes:

Lead by EPA Method 6010B

fbg = Feet below grade

<sup>\* =</sup> Cobbles made discrete soil sampling impossible in these locations; these samples represent a disturbed composite taken over a range of depths

<sup>\*\* =</sup> Sample heights were measured relative to the surface of Livermore Avenue

<sup>-- =</sup> Not analyzed

Table 4. Analytic Results for Groundwater: Hydrocarbons - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample ID	Sample Date	TPHg	TPHd	TPHmo Concentrations	B reported in micros	T grams per liter ( µg/L)	E	X
SB6	1/30/2008	110	300	<400	3	<0.5	<0.5	<0.5
SB7	1/30/2008	3,000	6,400	<400	< 0.5	<0.5	<0.5	<0.5
SB8	1/31/2008	18,000	52,000	***	<1	<1	8	2
SB9	1/29/2008	1,000	490	450	<0.5	<0.5	<0.5	0.5
CPT1	2/5/2008	3,300	47,000	1,500	5	2	3	2
CPT2	2/4/2008	4,100	10,000	1,500	14	2	57	110

### Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd) and motor oil (TPHmo) by EPA Method 8015M Benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8260B \*\*\* = Not analyzed due to lack of an adequate amount of groundwater for sample

 $<_X$  = Not detected above method detection limit

Table 5. Analytic Results for Groundwater: Fuel Oxygenates - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample ID	Sample Date	MTBE	DIPE	ETBE Concentrations	TAME reported in microgram	TBA ms per liter ( µg/L)	1,2-DCA	EDB
SB6	1/30/2008	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	< 0.5
SB7	1/30/2008	<0.5	<0.5	< 0.5	<0.5	16	<0.5	< 0.5
SB8	1/31/2008	<1	<1	<1	<1	<4	<1	<1
SB9	1/29/2008	<0.5	< 0.5	< 0.5	<0.5	<2.0	<0.5	< 0.5
CPT1	2/5/2008	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5
CPT2	2/4/2008	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5

### Abbreviations/Notes:

Methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), t-butyl alcohol (TBA), dichlorethane (1,2-DCE), 1,2-dibromoethane (EDB) by EPA Method 8260B

 $<_X =$  Not detected above method detection limit

Table 6. Analytic Results for Soil Vapor - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

Sample	Sample	Probe Depth	TPH (Gasoline)	В	T	E	X <sup>1</sup>	MTBE	ТВА	DIPE	ETBE	TAME	EDB	1,2-DCA	Naphthalene	Helium	Oxygen	$CO_2$
ID	Date	Interval (fbg)				,,	Reporte	ed in microgra	ıms per cubic	meter (μg/m	<sup>3</sup> )				* :	<	% volume	
VP1	03/10/08	5.0 - 5.5	940	<3.2	18	5.6	<4.4	<3.6	<31	<17	<17	<17	<7.8	<4.1	<21	0.24	38	0.36
VP1	LAB DI	UPLICATE	<del></del>	<3.2	13	<4.4	<4.4	<3.6	<31	<17	<17	<17	< 7.8	<4.1	<21	0.20	38	0.36
VP1	03/10/08	9.5 - 10	<250	<3.9	<4.6	<5.2	<5.2	<4.4	<37	<20	<20	<20	<9.3	<4.9	<25	<0.12	20	1
VP2	03/10/08	5.0 - 5.5	500	<4.0	19	6.4	31	<4.6	<38	<21	<21	<21	<9.7	<5.1	<26	<0.13	17	
VP2 DUP	03/10/08	5.0 - 5.5	<260	<4.0	<4.8	<5.5	<5.5	<4.6	<38	<21	<21	<21	<9.7	< 5.1	<26	< 0.13	17	2
VP2	03/10/08	9.5 - 10	450	<3.9	29	9.7	11	<4.4	<37	<21	<21	<21	<9.5	<5.0	<26	<0.12	18	1.6
VP3	03/10/08	5.0 - 5.5	<260	<4.0	<4.8	<5.5	6.3	<4.6	<38	<21	<21	<21	<9.7	<5.1	<26	<0.13	17	2.3
VP3	03/10/08	9.5 - 10	<250	<3.9	<4.6	< 5.4	<5.4	<4.4	<37	<21	<21	<21	<9.5	<5.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	< 0.12	18	2.2
ESL <sup>2</sup>	. <u></u>		29,000	280	180,000	580,000	58,000			<del></del>	<del></del>	·	14	310	240			

### Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method TO-3

Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Ethanol, Methyl Tertiary Butyl Ether (MtBE), t-Butyl Alcohol (TBA),

di-Isopropyl ether (DIPE), Ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), 1,2-Dibromoethane (EDB), and

1,2-Dichloroethane (1,2-DCA) by EPA Method TO-15

Helium, Oxygen, and Carbon Dioxide (CO<sub>2</sub>) by ASTM D-1946

fbg = Feet below grade

<sup>&</sup>lt;X = Not detected above method detection limit

<sup>-- =</sup> not analyzed or not applicable

<sup>1 =</sup> Values for highest value of Xylenes detected.

<sup>2 =</sup> Environmental Screening Levels (ESLs) for shallow soil gas in commercial/industrial land from the 2007 Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater by the California Regional Water Quality Control Board, San Francisco Bay Region, Table E-2

# Table 7. Analytic Results for Soil Physical Parameters - Former Chevron Station 30-7233, 2259 First Street, Livermore, CA

=	Sample	Sample	Sample	Bulk	Moisture	Total	Effective	Water Filled	Air Filled	Total Organic	Effective Air
	ID	Date	Depth (fbg)	Density (g/cc)	Content (% wt)	Porosity (% Vb)	Porosity (%Vb)	Porosity (% Vb)	Porosity (% Vb)	Carbon (mg/kg)	Permeability (md)
	VP1	02/01/08	8	1.78	5.7	33.9	31	10.2	23.7	490	6560

## Abbreviations/Notes:

Bulk density, total porosity, water filled porosity, air filled porosity, effective permeability by method API RP40

Moisture content by ASTM D2216

Totoal Porosity by method ASTM D425M

Total organic carbon by Walkley-Black Method

fbg = Feet below grade

g/cc = grams per cubic centimeter

% wt = percent weight

% Vb = percent bulk volume

mg/kg = milligrams per kilogram

md = millidarcy



# **ATTACHMENT A**

**Regulatory Correspondence** 

## ALAMEDA COUNTY

# **HEALTH CARE SERVICES**

AGENCY



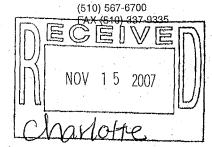
DAVID J. KEARS, Agency Director

November 13, 2007

Mr. Satya Sinha Chevron Environmental Management Company 6001 Bollinger Canyon Rd., K2256 San Ramon, CA 94583-2324

Ms. Chris Davidson
City of Livermore Economic Development
1052 S. Livermore Ave.
Livermore, CA 94550

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577



Subject: Fuel Leak Case No. RO0002908 and Geotracker Global ID T0600196622, Miller Square Park, 2259 First Street, Livermore, CA 94550

Dear Mr. Sinha and Ms. Davidson:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site including the recently submitted document entitled, "Revised Site Investigation Workplan," dated October 29, 2007, which was prepared on behalf of Chevron by Conestoga-Rovers & Associates. The Revised Site Investigation Work Plan was modified in response to technical comments in ACEH correspondence dated August 22, 2007 and October 11, 2007. The work plan revisions adequately address our August 22, 2007 and October 11, 2007 technical comments and may be implemented.

We request that Chevron work with the City of Livermore to schedule the proposed work during periods that do not conflict with scheduled activities in the downtown Livermore area. Please perform the proposed work and send us the report requested below. Please provide 72-hour advance written notification to this office (e-mail preferred to <a href="mailto:jerry.wickham@acgov.org">jerry.wickham@acgov.org</a>) prior to the start of field activities.

### TECHNICAL REPORT REQUEST

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

March 28, 2008 – Site Investigation Report

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.

Mr. Satya Sinha Ms. Chris Davidson RO0002908 November 13, 2007 Page 2

## **ELECTRONIC SUBMITTAL OF REPORTS**

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will 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 (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. 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 monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website 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.

Mr. Satya Sinha Ms. Chris Davidson RO0002908 November 13, 2007 Page 3

### 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 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, 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

John Rigter Livermore-Pleasanton Fire Department 3560 Nevada Street Pleasanton, CA 94566

Character Vans Comestoga Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File

## ALAMEDA COUNTY

# **HEALTH CARE SERVICES**



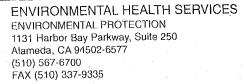


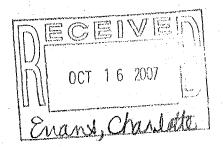
DAVID J. KEARS, Agency Director

October 11, 2007

Mr. Satya Sinha Chevron Environmental Management Company 6001 Bollinger Canyon Rd., K2256 San Ramon, CA 94583-2324

Ms. Chris Davidson City of Livermore Economic Development 1052 S. Livermore Ave. Livermore, CA 94550





Subject: Fuel Leak Case No. RO0002908 and Geotracker Global ID T0600196622, Miller Square Park, 2259 First Street, Livermore, CA 94550

Dear Mr. Sinha and Ms. Davidson:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site including the recently submitted document entitled, "Revised Site Investigation Workplan," dated October 2, 2007, which was prepared on behalf of Chevron by Conestoga-Rovers & Associates. The Revised Site Investigation Work Plan was modified in response to technical comments in ACEH correspondence dated August 22, 2007. With one exception, the work plan revisions adequately address our August 22, 2007 technical comments. However, the work plan only includes one soil vapor sampling location adjacent to an existing building and proposes delaying an evaluation of potential future indoor vapor intrusion until the site is redeveloped. This proposal is unacceptable since an evaluation of potential future human health risks is necessary to make decisions with regard to site investigation and cleanup. Therefore, we request that you propose additional soil vapor sampling throughout the site that will provide a complete evaluation of potential future indoor vapor intrusion. We request that you expand the Revised Site Investigation Work Plan in accordance with the technical comments below and submit a revised Work Plan by October 31, 2007.

## TECHNICAL COMMENTS

1. Direct Push Borings. The Revised Work Plan indicates that grab groundwater samples will be collected from each boring, "if groundwater is encountered." Please note that the collection of groundwater samples from these borings is the primary purpose for the borings. If groundwater samples are not collected from the proposed direct push borings, please include plans to use a different drilling technique that is capable of advancing the borings to sufficient depths to collect grab groundwater samples. Please include a description of this supplemental drilling method in the Revised Work Plan requested below.

Mr. Satya Sinha Ms. Chris Davidson RO0002908 October 11, 2007 Page 2

2. Soil Vapor Sampling. As previously discussed, the proposal to delay an evaluation of potential future indoor vapor intrusion until the site is redeveloped is unacceptable since an evaluation of potential future human health risks is necessary to make decisions with regard to site investigation and cleanup. Therefore, we request that you propose additional soil vapor sampling throughout the site in the Revised Site Investigation Work Plan that will provide a complete evaluation of potential future indoor vapor intrusion. Previous site data along with the known locations of former USTs and suspected locations of former dispensers and product piping are to be reviewed in proposing the additional soil vapor sampling locations. Please include the additional soil vapor sampling in the Revised Work Plan requested below.

### TECHNICAL REPORT REQUEST

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

October 31, 2007 - Revised Work Plan

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**

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will 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 (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. 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 monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

Mr. Satya Sinha Ms. Chris Davidson RO0002908 October 11, 2007 Page 3

#### 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 or contact me my electronic mail at <a href="mailto:jerry.wickham@acgov.org">jerry.wickham@acgov.org</a>.

Sincerely,

Jerry Wickham, P.G.

Hazardous Materials Specialist

Mr. Satya Sinha Ms. Chris Davidson RO0002908 October 11, 2007 Page 4

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, 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

John Rigter Livermore-Pleasanton Fire Department 3560 Nevada Street Pleasanton, CA 94566

Charlotte Evans
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File

# ALAMEDA COUNTY

# HEALTH CARE SERVICES





DAVID J. KEARS, Agency Director

August 22, 2007

Mr. Satya Sinha Chevron Environmental Management Company 6001 Bollinger Canyon Rd., K2256 San Ramon, CA 94583-2324

Ms. Chris Davidson
City of Livermore Economic Development
1052 S. Livermore Ave.
Livermore, CA 94550

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



Subject: Fuel Leak Case No. RO0002908 and Geotracker Global ID T0600196622, Miller Square Park, 2259 First Street, Livermore, CA 94550

Dear Mr. Sinha and Ms. Davidson:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site including the recently submitted documents entitled, "Underground Storage Tank Removal and Compliance Sampling Report," dated August 17, 2007 and "Site Investigation Workplan," dated July 20, 2007. Both documents were prepared on behalf of Chevron by Conestoga-Rovers & Associates. The "Underground Storage Tank Removal and Compliance Sampling Report," presents the results from removal of two USTs from the southern portion of Mills Square Park on June 20, 2007. Elevated concentrations of Total Petroleum Hydrocarbons (TPH) as diesel, total oil & grease (TOG), and lead were detected in three soil samples collected beneath the northern UST.

The Site Investigation Work Plan proposes a scope of work to investigate the extent of fuel hydrocarbons in soil, soil vapor, and groundwater. We request that you revise the Site Investigation Work Plan in accordance with the technical comments below and submit a revised Work Plan by October 3, 2007.

# TECHNICAL COMMENTS

1. Soil Sampling. The Work Plan indicates that, "Soil samples will be collected every 10 feet starting from 5 fbg to total depth, and additionally at areas of obvious hydrocarbon impact, lithologic change, and in the capillary fringe zone." It is not clear whether the proposed soil sampling applies to each of the three types of proposed borings: CPT borings, direct push borings, and soil vapor probe borings. In order to make the field program more efficient, we recommend that you minimize the number of soil samples to be collected in the CPT borings and use direct push borings in areas where more soil sampling is required. Please see the discussion of soil sampling for each type of boring in the technical comments below.

- 2. **Metals in Shallow Soil.** During the September 2003 investigation by Fugro West, Inc., lead was detected at a concentration of 3,600 milligrams per kilogram in a soil sample collected at a depth of 3 feet bgs. The January 6, 2004 report by Fugro West, Inc. speculated that the source of lead in soil was fill material in Mills Square Park. During the 2006 site investigation by Cambria, no soil samples were collected for metals analysis at a depth shallower than 5 feet bgs. In the revised Work Plan requested below, please include plans to define the extent of elevated concentrations of lead in shallow soil at the site. Recommended sampling locations are shown on the attached figure entitled, "Recommended Sampling Locations." We request that soil samples be collected at depths of 1.5, 3.0, 5.0, and 10.0 feet bgs at each sampling location and analyzed for total lead by EPA Method 6010B. If staining, odor, or elevated PID readings are observed in any of the soil samples, we request that the soil samples also be analyzed for TPH as diesel and TPH as motor oil by EPA Method 8015M and TPH as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), fuel oxygenates, 1,2-dichloroethane, and 1,2-dibromomethane by EPA Method 8260B.
- 3. Vertical Extent of Contamination and CPT Borings. The proposed locations of the CPT borings are acceptable. However, the CPT borings are also required to define the vertical extent of contamination. Therefore, we request that the CPT borings be extended to a depth of 80 feet bgs. Groundwater samples are to be collected from first encountered groundwater and each significant water-bearing zone identified on the CPT log below first encountered groundwater. Please include these plans in the Revised Work Plan requested below.
- 4. Soil Vapor Sampling. The proposed method for installation of a nested probe and collection of soil vapor samples is acceptable. We request that one additional soil vapor probe be installed in the area of the former dispenser islands to evaluate whether elevated concentrations of fuel hydrocarbons in soil have resulted in elevated concentrations of benzene in soil vapor. In the Revised Work Plan requested below, please include the additional soil vapor sampling location shown on the attached figure entitled, "Recommended Sampling Locations."
- 5. Direct Push Borings. The proposed boring locations for direct push borings SB-6 and SB-7 are acceptable. However, we request that two additional direct push borings be advanced at the locations shown on the attached figure entitled, "Recommended Sampling Locations." The soil borings are to be advanced approximately 10 feet below first encountered groundwater in order to collect a grab groundwater sample from each boring; however, we request that the depth of the boring be extended if contamination is observed at the total depth of the boring. The soil borings are to be visually logged continuously in the field for soil type, color, moisture content, odor, and other observed features and screened with a photoionization detector. Soil samples are to be collected for laboratory analysis at any interval where visible staining, odor, or elevated PID readings are observed. If visible staining, odor, or elevated PID readings are observed, a sufficient number of soil samples must be collected to characterize the vertical interval over which the contamination occurs. If no visible soil staining, odor, or elevated PID readings are observed in the soil boring, we request that soil samples be collected for laboratory analyses at a maximum of 10- foot intervals from 5 feet bgs to the total depth of the boring. Please present plans for the direct push borings in the Revised Work Plan requested below.

6. Soil and Groundwater Analyses. As discussed in technical comment 2, we request that soil samples be collected from shallow borings to define the extent of metals in shallow soil be analyzed for total lead by EPA Method 6010B. We request that soil samples collected from the direct push borings be analyzed for TPH as diesel and TPH as motor oil by EPA Method 8015M and TPH as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), fuel oxygenates, 1,2-dichloroethane, and 1,2-dibromomethane by EPA Method 8260B, and total lead by EPA Method 6010B. We request that all groundwater samples be analyzed for TPH as diesel by EPA Method 8015M and TPH as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX), fuel oxygenates, 1,2-dichloroethane, and 1,2-dibromomethane by EPA Method 8260B.

# TECHNICAL REPORT REQUEST

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

October 3, 2007 – Revised Work Plan

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.

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## 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

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

Sincerely,

Jerry Wickham, P.G.

Hazardous Materials Specialist

Attachment: Recommended Sampling Locations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

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

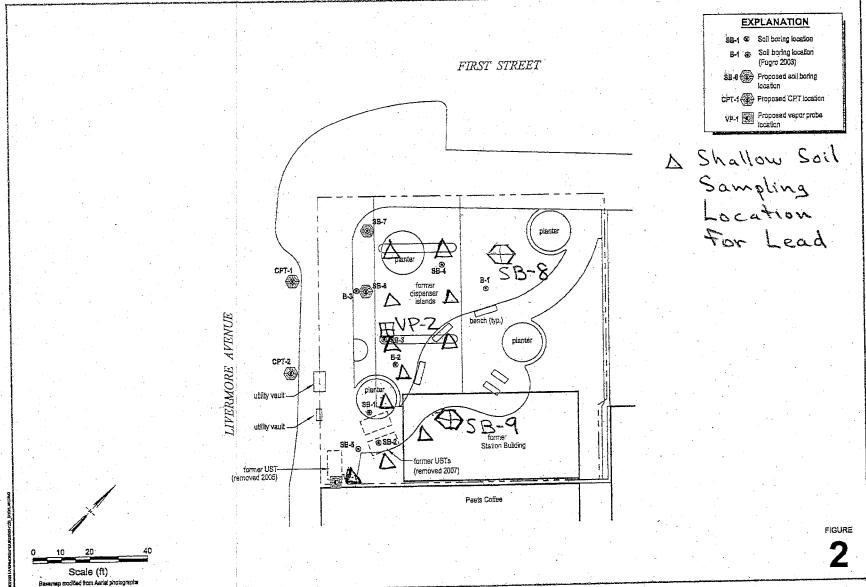
Danielle Stefani Livermore-Pleasanton Fire Department 3560 Nevada Street Pleasanton, CA 94566

John Rigter Livermore-Pleasanton Fire Department 3560 Nevada Street Pleasanton, CA 94566

Charlotte Evans Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File

# Recommended Sampling Locations



Site Plan with Proposed Boring Locations

Former Chevron Station 30-7233 2259 First Street Livermore, California



# ATTACHMENT B Permits

# AND THE PROPERTY OF THE PROPER

Ian Hull ATTACH SITE PLAN OR SKETCH

# **ZONE 7 WATER AGENCY**

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306 E-MAIL whong@zone7water.com

#### **DRILLING PERMIT APPLICATION**

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 2259 FIRST ST. @	PERMIT NUMBER 28001
LIVERMORE AVE.	WELL NUMBER 3S/2E-9N17 to 9N19 (VP-1 to VP-3)
LIVERMORE ALE	APN 097-0110-005-03
California Coordinates Sourceft. Accuracy±ft.  CCN ft. CCEft.	PERMIT CONDITIONS
CCNft. CCEft.	(Circled Permit Requirements Apply)
	(A.) GENERAL
CLIENT Nome CHEVRON ENVIRONMENTAL MANAGEMENT C	1. A permit application should be submitted so as to arrive at the
Name CHEVRON ENVIRONMENTAL MANAGEMENT ( Address GOOL BOLLINGER CANYON Phone	Zone 7 office five days prior to proposed starting date.  2. Submit to Zone 7 within 60 days after completion of permitted
City SAN RAMON Zip 94583	work the original Department of Water Resources Water Well
APPLICANT	Drillers Report or equivalent for well projects, or drilling logs and
Name CONESTOGA- POVERS & ASSOC.	location sketch for geotechnical projects.  3. Permit is void if project not begun within 90 days of approval
_Emailihv11 @ Craworld. Com Fax 510 - 420 - 9170	date.
Address 5900 HOLLS ST., Ste. A Phone 510-420-3344  City EMERYVILLE Zip 94608	D WATER OURSE VALLE O
City BINER TOTCHE ZIP 44608	WATER SUPPLY WELLS     Minimum surface seal diameter is four inches greater than the
TYPE OF PROJECT:	well casing diameter.
Well Construction   Geotechnical Investigation	2. Minimum seal depth is 50 feet for municipal and industrial wells
Well Destruction □ Contamination Investigation   Cathodic Protection □ Other □ □	or 20 feet for domestic and Irrigation wells unless a lesser depth is specially approved.
Cathodio Fotosion 2	Grout placed by tremie.
PROPOSED WELL USE:	4. An access port at least 0.5 Inches in diameter is required
Domestic □ Irrigation □ Municipal □ Remediation □	on the wellhead for water level measurements.  5. A sample port is required on the discharge pipe near the
Industrial   Groundwater Monitoring	wellhead.
Dewatering   Other TEMP VAPOR	THE WALL THE MODIFICATION OF THE INCIDENCE
DRILLING METHOD:	C.) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
Mud Rotary ☐ Air Rotary ☐ Hollow Stem Auger 🕿	1. Minimum surface seal diameter is four inches greater than
Cable Tool Direct Push B Other CPT, W	the well or piezometer casing diameter.
DRILLING COMPANY 6FEG. 02111NG (C-57-485165)	<ol><li>Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.</li></ol>
AND VIRONEX (C-57-705927)	3. Grout placed by tremie.
DRILLER'S LICENSE NO.	
WELL SPECIFICATIONS:	(D.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or
Drill Hole Diameter 2 in. Maximum	heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement
Casing Diameter	grout shall be used in place of compacted cuttings.
Surface Sear Deptri 4 II. Number 3	
	E. CATHODIC. Fill hole above anode zone with concrete placed by
SOIL BORINGS: Number of Borings 17 Maximum	tremie.
Hole Diameter 2-5 in. Depth 60 ft.	F. WELL DESTRUCTION. See attached.
ESTIMATED STARTING DATE TAN 28, 2008 ESTIMATED COMPLETION DATE FEE 7, 2008	(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after
COLUMNITIES COMMITTEE LIGHT DATE TO SEE SE SECTION OF S	completion of permitted work the well installation report including all soil and water laboratory analysis results.
(b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.	Malan a Day A
)	Approved Nymbol Date 1/8/08
APPLICANT'S SIGNATURE Date 12/14/07	Wyman Hong
SIGNATUREDateDate	v rijiiwii riong //



### ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

100 NORTH CANYONS PARKWAY, LIVERMORE, CA 94551-9486

PHONE (925) 454-5000

January 10, 2008

Mr. Ian Hull Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608



Dear Mr. Hull:

Enclosed is drilling permit 28001 for a monitoring well construction project and contamination investigation at 2259 First Street in Livermore for Chevron Environmental Management Company. Also enclosed is a current drilling permit application for your files. Drilling permit applications for future projects can also be downloaded from our web site at www.zone7water.com.

Please note that permit conditions A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, permit number and any analysis of the soil and water samples. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 5056 or Matt Katen at extension 5071.

高端的 化氯甲酚 化磷矿矿 医神经病

Sincerely,

Wyman Hong

Water Resources Specialist

Enc.



City of Livermore

Community Development Department 1052 S. Livermore Avenue Livermore, CA 94550 (925) 960-4500

Encroachment EN070478 Permit No. Other

PERMIT TO DO WORK IN ACCORDANCE WITH CHAPTER 12.08 OF THE LIVERMORE MUNICIPAL CODE AND SPECIFICATIONS AS ADOPTED BY THE CITY OF LIVERMORE AND ANY SPECIAL REQUIREMENTS SHOWN OR LISTED HEREIN.

Permit Fee:

\$53.00

Inspection Fee:

\$535.00

Bond:

\$0.00

Applicant/Permittee: Name:

Conestoga-Rovers & Associates

Address:

5900 Hollis Street, Suite A

Emeryville, CA 94608, 94608

Phone:

Total:

\$588.00

Contractor:

Name:

Gregg Drilling And Testing

Address:

950 Howe Rd Martinez, CA 94553

Phone:

925-313-5800

PLEASE READ THIS PERMIT CAREFULLY. KEEP IT AT THE WORK SITE. TO ARRANGE FOR AN INSPECTION, PHONE (925) 960-4500 AT LEAST 24 HOURS BEFORE YOU START WORK.

2259 First Street \*\*\*\* JOB LOCATION:

Close straight lane on Livermore Ave. for 2 days, close 3 DESCRIPTION OF WORK: parking spaces on Livermore Ave & 2 parking spaces on First Street for 9 days. Close mills square park walkway, portions of the park & portions on the nearby sidewalk for 7 days. Work day Jan 28 - Feb 6, 20008.

Length of Excavation: L.F.

Width: L.F.

Depth: \_ L.F.

Attention is directed to the General Provisions printed on the reverse side of this permit and to the attached special requirements (to be determined as needed by the Engineering Division).

Prosecution of Work: All work authorized by the permit shall be performed in a workmanlike, diligent, and expeditious manner, and must be completed to the satisfaction of the City Engineer.

Liability and Damages: The permittee shall be responsible for all liability imposed by law for personal injury or property damage which may arise out of the work permitted and done by permittee under this permit, or which may arise out of the failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Livermore, its officers and employees, and save them harmless in every way from all action at law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit.

Street (JAN HULL)

Date: 1/24/2008

City Engineer

Date of Issue:

Work Completed:

Date:

Inspector:

# City of Livermore

Encroachment Permit No. EN070478

Community Development Department 1052 S. Livermore Avenue Livermore, CA 94550 (925) 960-4500

# SPECIAL REQUIREMENTS APPLICABLE TO WORK ASSOCIATED WITH

#### JOB LOCATION:

2259 First Street \*\*\*\*

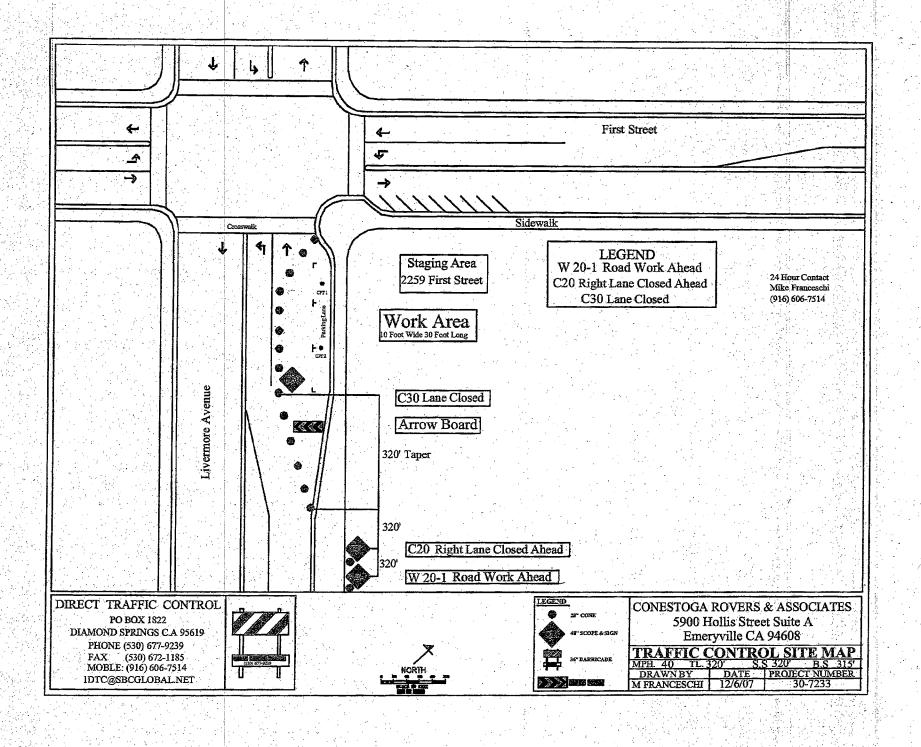
**DESCRIPTION OF WORK:** Close straight lane on Livermore Ave. for 2 days, close 3 parking spaces on Livermore Ave & 2 parking spaces on First Street for 9 days. Close mills square park walkway, portions of the park & portions on the nearby sidewalk for 7 days. Work day Jan 28 - Feb 6, 20008.

- 1: See Attached Drawing/Plans
- 2: Contractor shall repair/replace all damaged curb, gutter and sidewalk damaged as a result of current work being completed per the City Livermore Standard Details.
- 3: Pedestrian access must be maintained at all times, including if necessary, escorting pedestrians through the work area.
- 4: Traffic control shall be completed per Cal Trans Standards and any additional requirements deemed necessary by the City Engineer.
- 5: Notify traffic engineer 72 hours prior to start of work. Signal phasing will be changed to allow construction.
- 6: Borings made in street paving shall be repaired per City Standard Detail G-1D.
- 7: Repair or replace all landscape and irrigation with new to match existing.
- 8: All work shall be completed between the hours of 9 a.m. and 3 p.m.
- 9: Post N0-PARKING signs 72 hours in advance of closing parking lane.
- 10: Protect blue stone.

# CITY OF LIVERMORE -ENCROACHMENT PERMITAPPLICATION/WORKSHEET

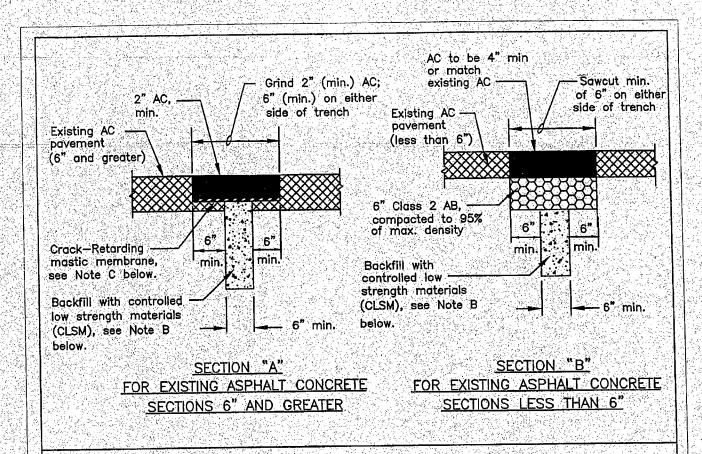
City of Livermore 1052 S. Livermore Avenue Livermore, CA 94550 Public Works Inspection 925-960-4500 925-960-4503 fax

For Office U	
Date Received: Proje Ready to Issue: Total Fees Required	
Notified Applicant By: Telephone/Mail Date Contacted:	그 가장이 근데 이번 이번에 가장 환경하지? 바닷가 그는 것이 없는데 없다.
	And the second of the angle and the second of the second o
Project address: 2259 FIRST STREET Tracti	
Applicant's Name: IAN HULL FOR CRA INC.	
Applicant's Address: 5900 HOLLIS ST., Ste. A City E	
PROPERTY OWNER:	CONTRACTOR: Name: GREGG DRILLING AND TESTING
Name: CITY OF LIVER MORE	Address: 950 Howe R.D.
Address:	City/Zip: MARTINEZ, 94553
City/Zip: Telephone Number:	Telephone Number: 925-313-5000
Totophone Number.	State License Number: 485165 Type C57
Description of work: CLOSE STRAIGHT LANE ON  CLOSE 3 PARKING SPACES ON LIVERMORE  FIRST ST. FOR (9) DAYS. CLOSE MILLS SO  THE PARK AND PORTIONS ON THE NEARBY.  WORK DATES: JAN. 28 - FEB. G	AVE. AND 2 PARKING SPACES ON UARE PARK WALKWAY, PORTIONS OF SIDEMALIC (AS SHOWN) FOR 7 DAYS.
	12008
SKETO	12008
X-WALK	12008
	12008



Site Plan with Proposed Boring Locations

Former Chevron Station 30-7233 2259 First Street Livermore, California



#### **NOTES**

- A. PRIOR TO TRENCHING, CONTACT USA 1-800-227-2600
- B. CONTROLLED LOW STRENGTH MATERIALS (CLSM) SHALL BE A FLOWABLE,
  HAND-EXCAVATABLE MIXTURE OF CEMENT, POZZOLAN, COARSE AND FINE AGGREGATE,
  ADMIXTURES AND WATER WHICH HAS BEEN MIXED IN ACCORDANCE WITH ASTM C 94.
  ALL PROPERTIES, COMPOSITIONS AND INSTALLATION REQUIREMENTS SHALL BE PER
  SPECIFICATION SECTION 312323. (CLSM) SHALL NOT COME IN CONTACT WITH UTILITIES.
  MAINTAIN A CLEARANCE OF 6" MINIMUM BETWEEN CLSM AND UTILITIES FOR BACKFILL.
- C. CRACKED-RETARDING MASTIC MEMBRANE SHALL BE AS MANUFACTURED BY CONTECH CONSTRUCTION PRODUCTS INC. PAVEPREP, AMOCO FABRICS FIBERS COMPANY PETROTAC OR EQUAL.
- D. ANY EXCAVATIONS LARGER THAN 3'x3' SHALL COMPLY WITH CITY STD DETAIL G-1B.

User note:

These details shall be used in conjunction with all the City standard details and specifications. Refer to the City standard specifications for the materials, installation, testing, protective coatings, and other requirements.

	33.43 34.53		SOU POONS AND	CITY OF LIVERMORE
	NY, THE		SOIL BORING AND	STANDARD DETAIL  Dwn: MAP Date: May-05 No.
DWG			게 하는 이 아니라 가게 가는 것이 되었다. 그 사람들이 되었다. 그 그 사람들은 그 사람들이 얼마나 살 먹다.	Ckd: Spec. Scale: None G-ID
WO1D.	Date:	By: Rev:	SECTION	City Engineer



ATTACHMENT C
CPT Report (Gregg)



#### GREGG DRILLING & TESTING, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

February 6, 2008

CRA

Attn: Charlotte Evans 5900 Hollis St. Suite A Emeryville, California 94608

Subject:

**CPT Site Investigation** 

Former Texaco Station 30-7233

Livermore, California

GREGG Project Number: 08-029MA

Dear Ms. Evans:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	$\boxtimes$
2	Pore Pressure Dissipation Tests	(PPD)	
3	Seismic Cone Penetration Tests	(SCPTU)	
4	Resistivity Cone Penetration Tests	(RCPTU)	
5	UVIF Cone Penetration Tests	(UVIFCPTU)	
6	Groundwater Sampling	(GWS)	$\square$
7	Soil Sampling	(SS)	$\boxtimes$
8	Vapor Sampling	(VS)	
9	Vane Shear Testing	(VST)	
10	SPT Energy Calibration	(SPTE)	

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely, GREGG Drilling & Testing, Inc.

Mary Walden Operations Manager



# GREGG DRILLING & TESTING, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

### Cone Penetration Test Sounding Summary

#### -Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
	2/05/00	55	46	21, 36	<u> </u>
CPT-01 CPT-02	2/05/08 2/04/08	55	35	22, 30, 35	21.7, 32.5, 39.4, 45.1, 51.3, 55.6
					<u> </u>



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DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

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Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

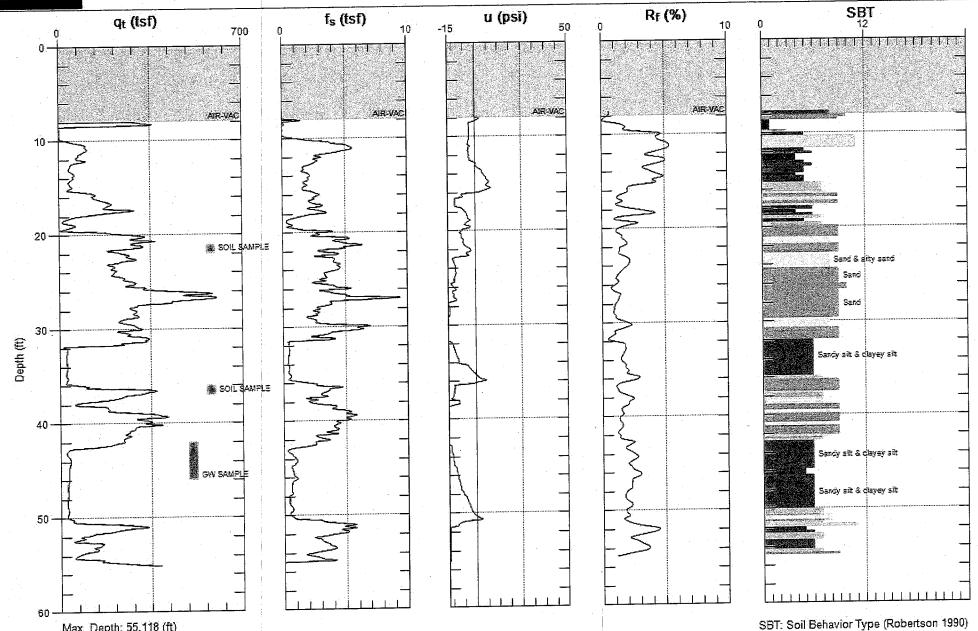


Max. Depth: 55.118 (ft) Avg. Interval: 0.328 (ft) Site: FMR. TEXACO 30-7233

Sounding: CPT-01

Engineer: C.EVANS

Date: 2/5/2008 08:10



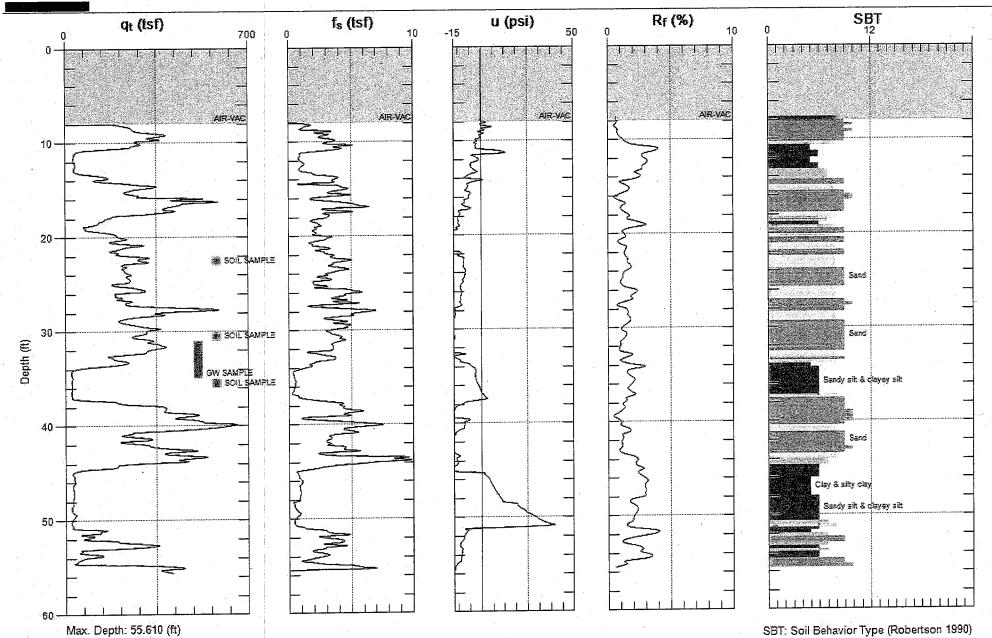
Avg. Interval: 0.328 (ft)

Site: FMR. TEXACO 30-7233

Sounding: CPT-02

**Engineer: C.EVANS** 

Date: 2/4/2008 08:26





ATTACHMENT D
Boring Logs

PAGE 1 OF 1



Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700

		Fax: 5	10-4	120-91	70							
CLIENT	NAME	CI	ievr	on Env	ironme	ental Ma	anagement Company	BORING/WELL NAME SB6				<del></del>
JOB/SIT	E NAM	E30	-72	33				DRILLING STARTED 28-Jan-0	8		<del></del>	
LOCATION	NC	22	59	First Str	reet, L	ivermor	e, California	DRILLING COMPLETED 30-Jan-0			<u> </u>	
PROJEC	TNUM		226			· · · · · ·		WELL DEVELOPMENT DATE (YIEL				
DRILLE	₹ ,	G	regg	Drilling	з & Те	sting, C	57 #485165	GROUND SURFACE ELEVATION		Not Su	irveyed	<del></del>
DRILLIN	G MET	нор <u>     н</u>	ollov	v-stem	auger			TOP OF CASING ELEVATION NA				•
BORING	DIAME							SCREENED INTERVAL NA				
LOGGE	D BY		Hull					DEPTH TO WATER (First Encount	ered)			08) ¥
REVIEW	ED BY			ss, PG				DEPTH TO WATER (Static)		NA		
REMAR	KS _	U	tility	cleared	with a	an air-k	nife-assisted vacuum tr	uck to 8 feet below grade				
		Ω		Control Control Control	Anno Alex Control					CONTACT DEPTH (ft bgs)		
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITH	OLOGIC DESCRIPTION	- 19	¥ E	\ <b>\/</b> /⊏11	DIAGRAM
1)	25	M	틼	H P	S.	[2≩]	LIITO	OLOGIC DESCRIPTION	.	SE	VVLLL	DIAGRAM
급	"0	SA	Ш		-5	ত			- [	5밤		
			Б				Silty SAND with gr	avel:Brown; damp; 70% well graded	-			
							sand, 20% silt, 10%	gravel; non-plastic; high estimated	Ì			Native Soil
0		Composite	<b>-</b>	- +			permeability.		.			
1,0		soil sample SB6-	<b> </b> ( (									
		SHALLOW	2									
				_ 5 _	SM							
			19									
		4.	I						. [			
N. Company			$\lfloor 2 \rfloor$									
			$\bowtie$				· · · · · · · · · · · · · · · · · · ·		: !	9.0		
0		SB6-9.5	$\times$	[ ,, ]			Sandy GRAVEL w	ith silt:Brown; moist; 50% gravel, ind, 10% silt; non-plastic; high	ľ			
		05000	П	10  	GW		estimated permeab	ility	1			
			11	7						12.0		
			11				Silty SAND: Brown	with green mottling; moist; 80% fine				
							sand, 15% silt, 5% permeability.	clay; non-plastic; moderate estimated	Ì			■ Portland Type
			П				, , , , , , , , , , , , , , , , , , ,		ļ			I/II Cement
			Ш	<b>−</b> 15−								
5			Ш									
5			Н						ļ			
108					C**				.			
			$\bigotimes$	} -	SM				-			
0		SB6-19.5	Â	<b>—</b> 20—								
850			Н	- : -								
2	- <del></del>		-1-1						Δ			<del></del>
Ž							@22 fbg soil becor	nes wet	٠.			
0			$\cong$									
1	ì	SB6-24		0.5						25.0		
5				25-								
S S										:		Rottom of
9				-								Bottom of Boring @
(723												25 ft
NASO												
CKO	-  -											
3												
1) ()												
(O.		1 .										



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CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SB7
OB/SITE NAME	30-7233	DRILLING STARTED 28-Jan-08
OCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 30-Jan-08
PROJECT NUMBER	312264	WELL DEVELOPMENT DATE (YIELD) NA
ORILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVATION Not Surveyed
ORILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION NA
BORING DIAMETER	5"	SCREENED INTERVAL NA
LOGGED BY	I. Huli	DEPTH TO WATER (First Encountered) 31.0 ft (30-Jan-08)
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA
DEMARKS	Utility alogred with an air knife assisted vacuum tr	ruck to 8 feet below grade

REMARKS Utility cleared with an <u>air-knit</u> CONTACT DEPTH (ft bgs) GRAPHIC LOG SAMPLE ID BLOW COUNTS PID (ppm) DEPTH (ft bgs) EXTENT U.S.C.S. WELL DIAGRAM LITHOLOGIC DESCRIPTION Silty SAND with grave I: Brown; damp; 70% well graded sand, 20% silt, 10% gravel; non-plastic; high estimated Native Soil SM 2.0 permeability Sandy GRAVEL with silt: Brown; moist; 50% fine to Composite soil sample 0 coarse gravel, 40% well graded sand, 10% silt; SB7-SHALLOW non-plastic; high estimated permeability. GW Sandy SILT: Brown; damp; 60% silt, 35% sand, 5% clay; moderate plasticity; low estimated permeability. 0 SB7-9.5 WELL LOG (PID) 1/CHEVRON/307233~/1BORING~/1307233 BORING LÓGS.GPJ DEFAULT.GDT 3/3/08 ML Portland Type I/II Cement 0 SB7-19.5 22.0 Sandy GRAVEL with silt:Brown; moist; 50% gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability. 24.0 Sandy SILT: Brown; stiff; moist; 80% silt, 20% fine sand; low plasticity; moderate estimated permeability. ML SB7-29.5 Ā @31 fbg soil becomes wet 33.0 Silty SAND: Grey; wet; 80% coarse sand, 20% silt; non-plastic; high estimated permeability.
@34 fbg sand becomes well graded, change in SM 35.0 SB7-34.5 PAGE 1 OF Continued Next Page



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CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME _	SB7	
OB/SITE NAME	30-7233	DRILLING STARTED _	28-Jan-08	
OCATION	2259 First Street, Livermore, California	DRILLING COMPLETED_	30-Jan-08	

CHARLES SERVICES	an a caracter of the	·	colmonood	grant school of the school of	COUNTY W. SELECTION	[*************************************	Continued from Previous Page	
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION  LOCULACIÓN (# pdg / pdg	. DIAGRAM
			+				composition: 60% sand, 30% silt, 10% gravel.	
								Bottom of Boring @ 35 ft
				-				
- 1								
						-		
		•	-		-	-		
				į.				
				-				

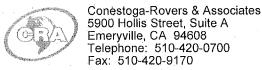


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CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB8		
JOB/SITE NAME	30-7233	DRILLING STARTED	28-Jan-08		
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED	31-Jan-08		
PROJECT NUMBER	312264	WELL DEVELOPMENT	ATE (YIELD) N	NA	
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELE	VATION	Not Surveyed	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVA	TION NA		
BORING DIAMETER	5"	SCREENED INTERVAL	NA		
LOGGED BY	I. Hull	DEPTH TO WATER (Firs	t Encountered)	34.0 ft (31-Jan-08)	Ā
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Stat	ic) _	NA	<u> </u>

Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade REMARKS CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG PID (ppm) BLOW COUNTS EXTENT DEPTH (ft bgs) U.S.C.S. WELL DIAGRAM LITHOLOGIC DESCRIPTION Silty SAND with gravel:Brown; damp; 70% well graded sand, 20% silt, 10% gravel; non-plastic; high estimated permeability.

Sandy GRAVEL with silt:Brown; moist; 50% gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability. 1.0 SM Native Soil Composite soil sample SB8-SHALLOW 0 GW 11.0 Sandy SILT: Brown; stiff; moist; 80% silt, 20% fine sand; low plasticity; moderate estimated permeability. WELL LOG (PID) 11/CHEVRONI307233-1/BORING-1/307233 BORING LOGS.GPJ DEFAULT GDT 3/3/08 SB8-19.5 ■ Portland Type I/II-Cement ML SB8-29.5  $\nabla$ @34 fbg soil becomes wet 1520 SB8-34.5 PAGE 1 OF Continued Next Page



PAGE 2 OF

**CLIENT NAME** 

Chevron Environmental Management Company BORING/WELL NAME SB8 28-Jan-08 30-7233 **DRILLING STARTED** 

JOB/SITE NAME DRILLING COMPLETED\_ 2259 First Street, Livermore, California LOCATION Continued from Previous Page CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG PID (ppm) BLOW EXTENT DEPTH (ft bgs) U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM Silty SAND: Brown; wet; 60% sand, 35% silt, 5% gravel; non-plastic; moderate estimated permeability. SM 40.0 SB8-39.5 23 Bottom of Boring @ 40 ft WELL LOG (PID) I ICHEVRONI307233-11BORING-11307233 BORING LOGS.GPJ DEFAULT.GDT 3/3/08



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CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SB9	_
JOB/SITE NAME	30-7233	DRILLING STARTED 28-Jan-08	_
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 29-Jan-08	
PROJECT NUMBER	312264	WELL DEVELOPMENT DATE (YIELD) NA	
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVATION Not Surveyed	
DRILLING METHOD	Hydraulic push and Hollow-stem auger	TOP OF CASING ELEVATION NA	
BORING DIAMETER	5"	SCREENED INTERVAL NA	
LOGGED BY	1. Hull	DEPTH TO WATER (First Encountered) NA	$\bar{\Delta}$
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA	Ā
REVIEWED BI	11.1 035, 1 0 #1 410		

REMARKS Utility cleared with an air-knife-assiste CONTACT DEPTH (ft bgs) GRAPHIC LOG SAMPLE ID BLOW U.S.C.S. PID (ppm) DEPTH (ft bgs) EXTENT WELL DIAGRAM LITHOLOGIC DESCRIPTION Silty SAND with gravel: Brown; damp; 70% well graded sand, 20% silt, 10% gravel; non-plastic; high estimated 1.0 SM Native Soil permeability.
Sandy GRAVEL with silt:Brown; moist; 50% 1/4" to 4" Composite soil sample 2 gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability. SB9-SHALLOW GW 15.0 Silty SAND: Brown; damp; 70% sand, 30% silt; non-plastic; moderate estimated permeability.

Sandy GRAVEL with silt:Brown; dry; 60% coarse gravel, 30% well graded sand, 10% silt; non-plastic; high estimated permeability. WELL LOG (PID): I'ICHEVRONI307233~1/BORING~1/307233 BORING LÓGS.GPJ: DEFAULT.GDT: 3/4/08 16.0 SB9-15 SM **GW** 18.5 Sandy SILT: Tan; soft; damp; 60% silt, 30% fine sand, 10% clay; moderate plasticity; moderate estimated permeability. ML @23 fbg decrease in sand: 75% silt, 15% sand; 10% clay. 24.0 No Recovery 26.0 Sandy SILT: Tan; stiff; moist; 60% silt, 40% sand; moderate plasticity; moderate estimated permeability. SB9-27.5 Portland Type I/II Cement ML 0 34.0 Silty SAND with gravel: Tan; dry; 60% sand, 30% silt, SB9-34.5 PAGE 1 OF Continued Next Page

PAGE 2 OF



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CLIENT NAME	
JOB/SITE NAME	

SB9 Chevron Environmental Management Company BORING/WELL NAME **DRILLING STARTED** 28-Jan-08 30-7233

2259 First Street, Livermore, California

DRILLING COMPLETED 29-Jan-08

LOCATION Continued from Previous Page CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG PID (ppm) BLOW COUNTS DEPTH (ft bgs) U.S.C.S. EXTENT WELL DIAGRAM LITHOLOGIC DESCRIPTION 10% fine gravel; non-plastic; moderate estimated permeability. SM 40:0 No Recovery 44.0 Silty SAND: Tan; soft; moist; 70% sand, 30% silt; non-plastic; moderate estimated permeability. SB9-46.5 3 SM @50 fbg becomes stiff, composition changes: 60% sand, 40% silt. @53 fbg gravel lens 6" thick: green; moist; 50% sand, 10% silt, 40% fine gravel; non-plastic; moderate to high estimated permeability. 54.0 55.0 SM SAND with gravel: Green; soft; moist; 70% well graded sand, 30% fine gravel; non-plastic; moderate to high 30 SB9-54.5 WELL LOG (PID) INCHEVRONI307233-11BORING-11307233 BORING LOGS.GPJ DEFAULT.GDT 3/3/08 estimated permeability Bottom of Boring @ 55 ft



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CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SSB1
JOB/SITE NAME	30-7233	DRILLING STARTED 31-Jan-08
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 01-Feb-08
PROJECT NUMBER	312264	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	RSI Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION NA
BORING DIAMETER	2"	SCREENED INTERVAL NA
LOGGED BY	S. McNaboe	DEPTH TO WATER (First Encountered) NA
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA

REMARKS Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG BLOW EXTENT PID (ppm) U.S.C.S. DEPTH (ft bgs) WELL DIAGRAM LITHOLOGIC DESCRIPTION Sandy SILT with gravel: Brown; damp; 50% well graded sand, 40% 0.2-inch gravel, 10% silt; low plasticity; moderate estimated permeability. Native Soil ML 2.0 SSB1-1.5 0 Sandy GRAVEL with silt:Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability. SSB1-2.5 0 Portland Type I/II Cement 5.0 SSB1-4.5 0 Refusal @ 5 fbg Bottom of Boring @ 5 ft WELL LOG (PID) INCHEVRONIS07233~1BORING-11307233 BORING LOGS.GPJ DEFAULT.GDT 3/3/08 PAGE 1 OF

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-		
Fax:	510-420-	9170

CLIENT I JOB/SIT LOCATION PROJECT DRILLEN DRILLIN BORING LOGGEI REVIEW REMARI	E NAME ON OT NUM OR OF METHOR OF BY VED BY	30 22 31 32 32 32 32 32 32 32 32 32 32 32 32 32	259 F 226 SI D and Mc	33 First Str 4 rilling Auger Naboe	eet, Li	vermor		DRILLING STARTED 01-Feb-08  DRILLING COMPLETED 01-Feb-08  WELL DEVELOPMENT DATE (YIELD) NA  GROUND SURFACE ELEVATION Not Surveyed  TOP OF CASING ELEVATION NA  SCREENED INTERVAL NA  DEPTH TO WATER (First Encountered) NA  DEPTH TO WATER (Static) NA  truck to 8 feet below grade				
PID (ppm)	PID (ppm) BLOW COUNTS			DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG		DLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL	_ DIAGRAM	
4 1 0		SSB2-1.5 SSB2-2.5 SSB2-4.5	ētīņ,	- 5	SM		silt, 5% gravel; low permeability.  Sandy GRAVEL wi	moist; 55% well graded sand, 40% plasticity; moderate estimated the silt:Brown; moist; 50% fine to well graded sand, 10% silt; imated permeability.	2.0		■ Native Soil ■ Portland Type I/II Cement	
		SSB2-8	100				Refusal @ 8.5 fbg		8.5		Bottom of Boring @ 8.5 ft	
											t	
AIGU ZOS TIDONINO I LOU E LOU E CONTROLLEMENTE PROPERTIES PROPERTI												

PAGE 1 OF 1



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CLIENT NAME JOB/SITE NAM LOCATION PROJECT NUT DRILLER DRILLING ME BORING DIAM LOGGED BY REVIEWED BY REMARKS	3   2   2   3   4   4   4   4   4   4   4   4   4	0-7233 259 First 12264 SI Drilling land Auge " Hull	Street, L	_ivermoi	DRILLII e, California DRILLII WELL I GROUN TOP OF SCREE DEPTH DEPTH	DRILLING STARTED 30-Jan-08					
PID (ppm) BLOW COUNTS	SAMPLEID	EXTENT DEPTH (# bas)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC E	DESCRIPTION	CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM		
2	SSB3-1.5 SSB3-3 SSB3-5	- 5 -	SM		Silty SAND: Brown; moist; 55 silt, 5% gravel; low plasticity; permeability.  Sandy GRAVEL with silt:Brocoarse gravel, 40% well grade non-plastic; high estimated permeability.	moderate estimated  own; moist; 50% fine to ed sand, 10% silt;	3.0		Native Soil ✓ Portland Type I/II Cement		
	3303-3				Refusal @ 5.5 fbg				Bottom of Boring @ 5.5 ft		



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CLIENT JOB/SIT			nevr )-72		ironme	ental Ma	inagement Company	DAILLING STARTED 01-Feb-08					
LOCATION					reet, L	ivermor	e, California	DRILLING COMPLETED		<del> </del>			
PROJEC	T NUM	BER 31	226	64		<u> </u>		WELL DEVELOPMENT					
DRILLE				rilling				GROUND SURFACE EL		Not S	urveyed		
DRILLIN				Auger				TOP OF CASING ELEVA			· · · · · · · · · · · · · · · · · · ·		
BORING				mba			<u> </u>	SCREENED INTERVAL DEPTH TO WATER (Fire		d) NA		$\overline{\nabla}$	
LOGGE! REVIEW					#7445	······································		DEPTH TO WATER (Sta			\	Ţ	
REMAR								uck to 8 feet below grade					
	personal paral.					1				(sf			
(ma	» SE	SAMPLE ID	Ę	H (S)	S	GRAPHIC LOG		· · · · · · · · · · · · · · · · · · ·		ACI (# bg)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DIAGRAM	
PID (ppm)	BLOW	MPL	EXTENT	DEPTH (ft bgs)	U.S.C.S.		LITHO	LOGIC DESCRIPTION		ISE.	WELL	. DIAGRAM	
ll d	"ဗ	SAI	Ш		<b>D</b>	5				CONTACT DEPTH (ft bgs)		Braden and a second	
-					SM		silt, 5% gravel; low p	moist; 55% well graded sa lasticity; moderate estimat	and, 40% ted			■ Native Soil	
0		SSB4-1.5	<b>67</b>	-	<u></u>		permeability.	h silt:Brown; moist; 50%		2.0			
0		SSB4-2.5	7				coarse gravel, 40% v	well graded sand, 10% silt	•			-	
							non-plastic, nigh est	imated permeability.				SECONO	
0		SSB4-4.5	27	<u> </u>	0.07							■ Portland Type	
***************************************			ļ		GW		en e					I/II Cement	
			1	-, -									
0		SSB4-9	7	-	ļ	. 6.				9.5	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
		*			-								
			1	-			Refusal @ 9.5 fbg					Bottom of Boring @	
and the second		*										9.5 ft	
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			İ			-						SWCD-604	
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Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

	A Control of the Cont		
CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SSB5	
JOB/SITE NAME	30-7233	DRILLING STARTED 06-Feb-08	
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 06-Feb-08	
PROJECT NUMBER	312264	WELL DEVELOPMENT DATE (YIELD) NA	
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVATION Not Surveyed	
DRILLING METHOD_	Hand Auger	TOP OF CASING ELEVATION NA	<u></u>
BORING DIAMETER	2"	SCREENED INTERVAL NA	
LOGGED BY	I. Hull	DEPTH TO WATER (First Encountered) NA	$\nabla$
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA	

Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade REMARKS CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG BLOW COUNTS PID (ppm) DEPTH (ft bgs) EXTENT U.S.C.S. WELL DIAGRAM LITHOLOGIC DESCRIPTION Silty SAND: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated permeability. Native Soil SM SSB5-1.5 2 3.0 Sandy GRAVEL with silt:Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability. SSB5-3 1 Portland Type I/II Cement GW 1 SSB5-5.5 7.5 SSB5-7 2 Refusal @ 7.5 fbg Bottom of Boring @ 7.5 ft WELL LOG (PID) INCHEVRONI307233-/1BORING-/1307233 BORING LOGS GPJ DEFAULT GDT 3/3/08



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CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SSB6	
JOB/SITE NAME	30-7233	DRILLING STARTED 06-Feb-08	
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 06-Feb-08	
PROJECT NUMBER	312264	WELL DEVELOPMENT DATE (YIELD) NA	_
DRILLER	RSI Drilling	GROUND SURFACE ELEVATION Not Surveyed	
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION NA	
BORING DIAMETER	2"	SCREENED INTERVAL NA	
LOGGED BY	I. Hull	DEPTH TO WATER (First Encountered) NA	$\nabla$
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA	Ţ
REMARKS	Utility cleared with an air-knife-assisted vacuum t	uck to 8 feet below grade	
	AND THE PROPERTY OF THE PROPER		ASSESSED

	BORING	DIAME						SCREENED INTERVAL NA					
	LOGGED	_		<u>Hull</u>		#7445	<del>:</del> —	DEPTH TO WATER (First Encountered) NA  DEPTH TO WATER (Static) NA					
	REVIEW				ss, PG			knife-assisted vacuum truck to 8 feet below grade					
	REMAR	<b>\S</b>		tility	cleare	a with	an air-						
	PID (ppm) BLOW COUNTS SAMPLE ID EXTENT DEPTH (ft bgs) U.S.C.S. GRAPHIC LOG						GRAPHIC LOG	LITHOLOGIC DESCRIPTION  LITHOLOGIC DESCRIPTION  WELL DIAGRAM					
	3		SSB6-1.5 SSB6-3	100 A		SM		Silty SAND: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated permeability.  Native Soil  Portland Type					
	1		3080-3		- - 5 -	GW		Sandy GRAVEL with silt:Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability.					
			:					Refusal @ 5 fbg Bottom of Boring @					
								5 ft					
	New York (Stranger)			-									
BORING LOGS GP. DEFAULT GDT 3/3/08	And the second s												
P.I. DEFAUL													
0.000		-											
7233 ROP!!	200												
חביור-ביואוםר	WELL LOG (FID) 1:1CHEVRUNG/7.235-11BORING-1150/253												
7025-410	10/Z33~118K												
0000	HEVEON												
	G(PID) I.V.												
-	WELLIO	entrino de la constitución de la						PAGE 1 OF					

PAGE 1 OF 1



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CLIENT I JOB/SITI LOCATIO PROJEC DRILLER DRILLIN BORING LOGGEI REVIEW REMARI	E NAMI T NUM  R G MET DIAME DIBY ED BY	E 30 22 BER 31 HOD H ETER 2"	259 1226 reggand Will	33 First St 34 Drillin Auger liams ss, PG	reet, L g & Te #7445	ivermor sting, C	e, California 57 #485165	DRILLING STARTED 06-Feb-08  DRILLING COMPLETED 06-Feb-08  WELL DEVELOPMENT DATE (YIELD) NA  GROUND SURFACE ELEVATION Not Surveyed  TOP OF CASING ELEVATION NA  SCREENED INTERVAL NA  DEPTH TO WATER (First Encountered) NA  DEPTH TO WATER (Static) NA  Truck to 8 feet below grade				<u> </u>
PID (ppm)	BLOW	SAMPLEID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG		DLOGIC DESCRIPTION	en en en en en en en en en en en en en e	CONTACT DEPTH (ft bgs)	WELI	_ DIAGRAM
4		SSB7-1.5 SSB7-3.5	<b>65</b>		SM	問題を	silt, 5% gravel; low p permeability. Sandy GRAVEL with	moist; 55% well graded s. lasticity; moderate estima th silt:Brown; moist; 50% well graded sand, 10% silt imated permeability	ted fine to	1.0		◀ Native Soil
0		SSB7-5.5 SSB7-7	7	5 	GW				·	7.5		✓ Portland Type I/II Cement
							Refusal @ 7.5 fbg					Bottom of Boring @ 7.5 ft
		2										
THE PROPERTY OF THE PROPERTY O												
AND AND AND AND AND AND AND AND AND AND												



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CLIENT NAME JOB/SITE NAME LOCATION PROJECT NUMBER DRILLER DRILLING METHOD BORING DIAMETER LOGGED BY REVIEWED BY REMARKS	30-723 2259 F 31226 Gregg Hand A 2" I. Hull R. Fos	First Stre  Urilling  Auger  Ss, PG #	& Testing, C	re, California C57 #485165	DRILLING STARTED 01-Feb-08  DRILLING COMPLETED 01-Feb-08  WELL DEVELOPMENT DATE (YIELD) NA  GROUND SURFACE ELEVATION Not Surveyed  TOP OF CASING ELEVATION NA  SCREENED INTERVAL NA  DEPTH TO WATER (First Encountered) NA  DEPTH TO WATER (Static) NA  Truck to 8 fèet below grade				
PID (ppm) BLOW COUNTS	EXTENT	DEPTH (ft bgs)	U.S.C.S. GRAPHIC LOG		LOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WELL	DIAGRAM
0 SSB			GW	silt, 5% gravel; low pl permeability. Sandy GRAVEL with	moist; 55% well graded sand asticity; moderate estimated h silt:Brown; moist; 50% fine vell graded sand, 10% silt; mated permeability.	, 40% to	9.5		Portland Type I/II Cement  Bottom of Boring @ 9.5 ft
WELL LOG (PID) INCHEWA	novanan erokka innovan ankala				productions can gave paperuncials his stands have been been selected as the second selected as the second selected as the second selected as the second selected as the second selected as the second selected as the second selected as the second selected as the second selected as the selected as the selected as the second selected as the selected as	ann ann an			PAGE 1 OF 1

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CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SSB9	
JOB/SITE NAME	30-7233	DRILLING STARTED 06-Feb-08	
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 06-Feb-08	
PROJECT NUMBER	312264	WELL DEVELOPMENT DATE (YIELD) NA	_
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVATION Not Surveyed	
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION NA	
BORING DIAMETER	2"	SCREENED INTERVAL NA	
LOGGED BY	J. Williams	DEPTH TO WATER (First Encountered) NA	<u>V</u>
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA	Ţ
.,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade REMARKS CONTACT DEPTH (# bgs) SAMPLE ID GRAPHIC LOG BLOW EXTENT U.S.C.S. PID (ppm) DEPTH (ft bgs) WELL DIAGRAM LITHOLOGIC DESCRIPTION Silty SAND: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated Native Soil SM 2.0 permeability. SSB9-1.5 1 Sandy GRAVEL with silt:Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; SSB9-3 non-plastic; high estimated permeability. 1 Portland Type I/II Cement SSB9-5 2 GW 9.5 SSB9-9 0. Bottom of Boring @ Refusal @ 9.5 fbg 9.5 ft WELL LOG (PID) 1/CHEVRON/307233~/1BORING~1\307233 BORING LOGS GPJ DEFAULT GDT 3/3/08

PAGE 1 OF 1



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Fax:	51	0-4	120	-91	70

CLIENT NAME  JOB/SITE NAME  JOB/SITE NAME  30-7233  LOCATION  PROJECT NUMBER  312264  DRILLER  Gregg Drilling & Testing, C57 #485165  DRILLING METHOD  Hand Auger  BORING DIAMETER  LOGGED BY  REVIEWED BY  R. Foss, PG #7445  REMARKS  Chevron Environmental Management Company  Augerstone  Suppose the province of the province of the part of the								DRILLING STARTED 06-Feb-08  DRILLING COMPLETED 06-Feb-08  WELL DEVELOPMENT DATE (YIELD) NA  GROUND SURFACE ELEVATION Not Surveyed  TOP OF CASING ELEVATION NA  SCREENED INTERVAL NA  DEPTH TO WATER (First Encountered) NA  DEPTH TO WATER (Static) NA  Truck to 8 feet below grade				
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG		DLOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WELL	DIAGRAM
		SSB10-3 SSB10-5			SM		silt, 5% gravel; low permeability.  Sandy GRAVEL wi	moist; 55% well graded sablasticity; moderate estimat th silt:Brown; moist; 50% fwell graded sand, 10% silt timated permeability.	 fine to	2.0		■ Native Soil ■ Portland Type I/II Cement
SACIO DETADE L'OUT SACIO SOCIETAMENT SACIONALISME SACIONA		SSB10-9					Refusal @ 9.5 fbg			9.5		Bottom of Boring @ 9.5 ft
1 LOG (PID) INCHEVRONISO7233-11BORING-1130/233 BURING LOGS												



BORING DIAMETER 2"

Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

BORING/WELL NAME \_\_ \$\$B11 Chevron Environmental Management Company **CLIENT NAME** DRILLING STARTED 06-Feb-08 JOB/SITE NAME DRILLING COMPLETED 06-Feb-08 2259 First Street, Livermore, California LOCATION WELL DEVELOPMENT DATE (YIELD) NA 312264 PROJECT NUMBER GROUND SURFACE ELEVATION Not Surveyed Gregg Drilling & Testing, C57 #485165 DRILLER TOP OF CASING ELEVATION NA Hand Auger DRILLING METHOD\_

SCREENED INTERVAL NA

EVIEWE EMARKS				ss, PG cleare			nife-assisted vacuum truck to 8 feet below grade			
			*******	*****************	E	1				
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELI	_ DIAGRAM
0		SSB11-1.5	***		SM		Silty SAND: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated permeability.	2.5		■ Native Soil
.0		SSB11-3	7			X	Sandy GRAVEL with silt:Brown; moist, 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability.			
2		SSB11-5	7	- 5 	GW	X				▼ Portland Type I/II Cement
1		SB11-8.5	173					9.0		
							Refusal @ 9 fbg			Bottom of
:		1							·	Boring @ 9 ft
. (.										
		2. 5	} .							
								-		
				-						
			1		-				l l	



Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	VP1	
JOB/SITE NAME	30-7233	DRILLING STARTED	31-Jan-08	_
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED	31-Jan-08	-
PROJECT NUMBER	312264	WELL DEVELOPMENT D	ATE (YIELD) NA	_
DRILLER	Vironex, C57 #705927	GROUND SURFACE ELE	EVATION Not Surveyed	_
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVA	TION NA	
BORING DIAMETER	2"	SCREENED INTERVAL	NA	
POLINO DIVINE LEIZ	I Hull	DEPTH TO WATER (Firs	t Encountered) NA	7

LOGGED BY NA **DEPTH TO WATER (Static)** REVIEWED BY R. Foss, PG #7445 Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade REMARKS CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG BLOW COUNTS EXTENT PID (ppm) U.S.C.S. DEPTH (ft bgs) LITHOLOGIC DESCRIPTION WELL DIAGRAM Silty SAND: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated SM Portland Type 2.0 permeability. I/II Cement Sandy GRAVEL with silt:Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability. ■ Bentonite Seal Monterey Sand #2/12 VP1-4.5 0 GW Portland Type I/II Cement 8.5 ■ Bentonite Seal VP1-8 0 Monterey Sand #2/12 Refusal @ 8.5 fbg Vapor well installed past 8.5 fbg by advancing a 0.5 inch rod to total depth, installing well, and then WELL LOG (PID) 1:OHEVRONI307233-11BORING-1\307233 BORING LOGS.GPJ DEFAULT.GDT 3/3/08 removing rod. Bottom of Boring @ 10 ft

### **BORING/WELL LOG**



Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT I JOB/SITI LOCATIO PROJEC DRILLEF DRILLIN BORING LOGGEE REVIEW REMARI	= 3 2 BER 3 V HOD H ETER 2	2259 First Street, Livermore, California				e, California	DRILLING STARTED 01-Feb-08  DRILLING COMPLETED 01-Feb-08  WELL DEVELOPMENT DATE (YIELD  GROUND SURFACE ELEVATION 1  TOP OF CASING ELEVATION NA  SCREENED INTERVAL NA  DEPTH TO WATER (First Encountered  DEPTH TO WATER (Static)	urveyed \qquad \qqquad \qqquad \qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq		
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHO	DLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
0		VP2-4.5		5	SM		silt, 5% gravel; low permeability.  Sandy GRAVEL wi coarse gravel, 40%	moist; 55% well graded sand, 40% clasticity; moderate estimated  th silt:Brown; moist; 50% fine to well graded sand, 10% silt; timated permeability.	_3.0	Portland Type I/II Cement  Bentonite Seal  Monterey Sand #2/12  Portland Type I/II Cement
		VP2-9.5		10-					10.0	■ Bentonite Seal ■ Monterey Sand #2/12  Bottom of Boring @ 10.5 ft
LOG (PID) INCHEVRONISO/2337 IBORING-1150/233 BONING-1										

### **BORING/WELL LOG**



Conestoga-Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

JOB/SITE NAME         30-72           LOCATION         2259 I           PROJECT NUMBER         31226           DRILLER         Virone           DRILLING METHOD         Hand           BORING DIAMETER         2"           LOGGED BY         S. Mc           REVIEWED BY         R. Fo			Vironex, C57 #705927  Hand Auger 2" S. McNaboe				e, California	DRILLING STARTED 01-Feb-08  DRILLING COMPLETED 01-Feb-08  WELL DEVELOPMENT DATE (YIELD) NA  GROUND SURFACE ELEVATION Not Surveyed  TOP OF CASING ELEVATION NA  SCREENED INTERVAL NA  DEPTH TO WATER (First Encountered) NA  DEPTH TO WATER (Static) NA  truck to 8 feet below grade				
PID (ppm)	BLOW	SAMPLEID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG		DLOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WELL	DIAGRAM
WELL LOG (PID) I NCHEVRONI307233-1/BORING-1/307233 BORING LOGS. GPJ DEFAULT GDT 3/3/08		VP3-4.5	**************************************	- 5 10	GW		silt, 5% gravel; low p permeability. Sandy GRAVEL wit	moist; 55% well graded salasticity; moderate estimates its silt: Brown; moist; 50% well graded sand, 10% silt imated permeability.	ted  fine to	8.5		Portland Type I/II Cement  Bentonite Seal  Monterey Sand #2/12  Portland Type I/II Cement  Bentonite Seal  Monterey Sand #2/12  Vapor well installed past 8.5 fbg by advancing a 0.5 inch rod to total depth, installing well, and then removing rod.  Bottom of Boring @ 10 ft
WELL LOG (PID) LICHEVRONISC				Jugo San Paul J. B. generalises (1984) v. 18		and the second section of the second				one grouped annotations and a		PAGE 1 OF



# ATTACHMENT E Laboratory Analytical Reports



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### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1075337. Samples arrived at the laboratory on Wednesday, January 30, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description	<u>Lancaster Labs Number</u>
SB-8-S-SHALLOW-080128 Composite Soil	5267812
SB-9-S-SHALLOW-080128 Composite Soil	5267813
SB-6-S-SHALLOW-080128 Composite Soil	5267814
SB-7-S-SHALLOW-080128 Composite Soil	5267815

ELECTRONIC	CRA
COPY TO	
ELECTRONIC	CRA
COPY TO	

Attn: Charlotte Evans

Attn: I Hull



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

Respectfully Submitted,

Christine Dulaney Senior Specialist



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Page 1 of 2

Lancaster Laboratories Sample No. SW5267812

Group No. 1075337

SB-8-S-SHALLOW-080128 Composite Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SB-8

Collected:01/28/2008 09:45 by IH

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32 Discard: 03/13/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FLSB8

	•			As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.		(n-hexane) TPH-	-GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	18.	4.0	mg/kg	1
06955	Lead	7439-92-1	21.9	0.490	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	53.	20.	mg/kg	2
02552	TPH Motor Oil C16-C36	n.a.	53.	20.	mg/kg	2
	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t Due to the nature of the sampl the analysis. The reporting 1	t mix calibrat: etracontane) no e extract matr:	ion in a range th ormal hydrocarbon ix, a dilution wa	nat includes ns. as used for		
07361	BTEX+5 Oxygenates+EDC+EDB					•
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.93
02017	di-Isopropyl ether	108-20-3	N.D.	0.0009	mg/kg	0.93
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	mg/kg	0.93
02019	t-Amyl methyl ether	994-05-8	N.D.	0.0009	mg/kg	0.93
02020	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.93
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.93
05461	1,2-Dichloroethane	107-06-2	N.D.	0.0009	mg/kg	0.93
05466	Toluene	108-88-3	N.D.	0.0009	mg/kg	0.93
05471	1,2-Dibromoethane	106-93-4	N.D.	0.0009	mg/kg	0.93
05474	Ethylbenzene	100-41-4	N.D.	0.0009	mg/kg	0.93
06301	Xylene (Total)	1330-20-7	N.D.	0.0009	mg/kg	0.93

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



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Lancaster Laboratories Sample No. SW5267812

Group No. 1075337

SB-8-S-SHALLOW-080128 Composite Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-8

Collected: 01/28/2008 09:45

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32 Discard: 03/13/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

FLSB8						
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modif	ied 1	01/31/2008 18:36	Linda C Pape	25
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/04/2008 11:45	Diane V Do	1
	Gel	•				
06955	Lead	SW-846 6010B	1	02/08/2008 06:42	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modif	ied 1	02/05/2008 23:30	Matthew E Barton	2
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/31/2008 22:02	Kelly E Brickley	0.93
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/30/2008 20:48	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/30/2008 20:46	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/30/2008 20:47	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/30/2008 20:45	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	01/31/2008 15:30	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	01/31/2008 15:30	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5267813

Group No. 1075337

Account Number: 10880

SB-9-S-SHALLOW-080128 Composite Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected: 01/28/2008 11:05

by IH

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32

Discard: 03/13/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FLSB9

CAT

No.

01725

Analysis Name

TPH-GRO - Soils

				As Received		
CAT			As Received	Method	•	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	1.3	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting patent time.	prior to the C6	(n-hexane) TPH-	-GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	13.	4.0	mg/kg	1
06955	Lead	7439-92-1	13.5	0.476	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	32.	10.	mg/kg	. 1
02552	TPH Motor Oil C16-C36	n.a.	32.	10.	mg/kg	1
	TPH quantitation is based on pethat of a hydrocarbon componen	eak area compar t mix calibrat:	rison of the sam ion in a range tl	ole pattern to hat includes		
	C8 (n-octane) through C40 (n-t	etracontane) no	ormal hydrocarbo	ns.		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.98
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.98
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.98
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.98
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.98
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.98
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.98
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.98
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.98
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.98
06301	Xylene (Total)	.1330-20-7	N.D.	0.001	mg/kg	0.98

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

Analysis

Method Trial# Date and Time

SW-846 8015B modified 1 01/31/2008 19:13

Analyst Linda C Pape Dilution Factor



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Lancaster Laboratories Sample No. SW5267813

Group No. 1075337

SB-9-S-SHALLOW-080128 Composite Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/28/2008 11:05

y IH Account Number: 10880

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32 ChevronTexaco 6001 Bollinger Canyon Rd L4310

Discard: 03/13/2008

FLSB9						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/01/2008 17:53	Diane V Do	1
	Gel	•				
06955	Lead	SW-846 6010B	1	02/08/2008 07:03	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 06:41	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/31/2008 22:25	Kelly E Brickley	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/30/2008 20:52	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/30/2008 20:53	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/30/2008 20:51	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1.	02/07/2008 19:40	Annamaria Stipkovits	1 .
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/30/2008 20:50	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	01/31/2008 15:30	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	01/31/2008 15:30	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5267814

Group No. 1075337

Account Number: 10880

SB-6-S-SHALLOW-080128 Composite Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-6

Collected: 01/28/2008 13:25

70000 10 50

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32

Discard: 03/13/2008

\*

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FLSB6

CAT

No.

01725

				As Received		
CAT		•	As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.					
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	6.13	0.471	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
·	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t	t mix calibrati	ion in a range tÎ	hat includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.96
.02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.96
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.96
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.96
02020	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.96
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.96
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.96
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.96
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.96
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.96
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.96

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

 Analysis
 Name
 Method
 Trial#
 Date and Time
 Analyst
 Factor

 TPH-GRO - Soils
 SW-846 8015B modified
 1 01/31/2008 19:50
 Linda C Pape
 25



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Lancaster Laboratories Sample No. SW5267814

Group No. 1075337

SB-6-S-SHALLOW-080128 Composite Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-6

Collected:01/28/2008 13:25

Account Number: 10880

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32 Discard: 03/13/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

FLSB6						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/01/2008 17:14	Diane V Do	. 1
	Gel					
06955	Lead	SW-846 6010B	1	02/08/2008 07:07	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 05:53	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/31/2008 22:48	Kelly E Brickley	0.96
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	` 1	01/30/2008 20:56	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2 .	01/30/2008 20:57	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/30/2008 20:55	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/30/2008 20:54	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	01/31/2008 15:30	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	01/31/2008 15:30	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5267815

Group No. 1075337

SB-7-S-SHALLOW-080128 Composite Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-7

Collected:01/28/2008 15:00

by IH

Account Number: 10880

Submitted: 01/30/2008 12:50

Reported: 02/11/2008 at 11:32 Discard: 03/13/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### FLSB7

CAT

		*		As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the C6	t include MTBE of (n-hexane) TPH-	or other -GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D	4.0	mg/kg	. 1
06955	Lead	7439-92-1	8.57	0.471	mg/kg	1
02516	TPH Fuels by GC (Soils)	-				
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on p that of a hydrocarbon componer C8 (n-octane) through C40 (n-t	ıt mix calibrati	lon in a range th	nat includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.01
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.01
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.01
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.01
05461	1.2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.01
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.01
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.01
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.01
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.01
			-			

State of California Lab Certification No. 2116

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

Laboratory Chronicle

Analysis

 No.
 Analysis Name
 Method
 Trial#
 Date and Time

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 01/31/2008 20:30

**Analyst** Linda C Pape Dilution Factor 25



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Lancaster Laboratories Sample No. SW5267815

Group No. 1075337

SB-7-S-SHALLOW-080128 Composite Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-7

Collected:01/28/2008 15:00 by

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32

Discard: 03/13/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

FLSB7						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/01/2008 17:34	Diane V Do	1
	Gel					
06955	Lead	SW-846 6010B	2	02/08/2008 07:18	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 06:17	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	01/31/2008 23:12	Kelly E Brickley	1.01
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/30/2008 20:59	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/30/2008 21:00	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1.	01/30/2008 21:03	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/30/2008 21:02	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	01/31/2008 15:30	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	01/31/2008 15:30	Doreen K Robles	1



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### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/11/08 at 11:32 AM Group Number: 1075337

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 08030A34B TPH-GRO - Soils	Sample N.D.	number(s):	5267812-52 mg/kg	67815 102		67-119		
Batch number: 080310009A TPH-DRO by 8015B w/Silica Gel	Sample N.D.	number(s):	5267812-52 mg/kg	67815 104	97	71-109	·	20
Batch number: 080310010A Total TPH TPH Motor Oil C16-C36	Sample N.D. N.D.	number(s): 10. 10.	5267812-52 mg/kg mg/kg	67815 78	79	66-113	2	20
Batch number: 080385708001 Lead	Sample N.D.	number(s): 0.490	5267812-52 mg/kg	67815 93		90-110		
Batch number: B080312AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	number(s):     0.0005     0.001     0.001     0.001     0.000     0.005     0.001     0.001     0.001     0.001     0.001     0.001	mg/kg mg/kg mg/kg mg/kg	98 90 94 94 95 95 118 96 99 93	96 87 91 91 92 90 114 90 97 88 88	72-117 72-120 72-115 73-116 59-154 84-115 76-126 81-116 77-114 82-115 82-117	3 4 4 3 6 3 6 1 5 5	30 30 30 30 30 30 30 30 30 30 30 30

### 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 <u>Limits</u>	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD
Batch number: 08030A34B TPH-GRO - Soils						K: P262899			
Batch number: 080385708001 Lead	Sample 154*		: 5267812 75-125		15 UNSP 20	K: 5267812 21.9	BKG: 52678 28.0	312 24*	20
Batch number: B080312AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol	Sample 83 76 78 77 87	number(s)	: 5267812 59-119 58-113 60-112 63-112 51-134	-52678	15 UNSP	K: 5267812			

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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



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Page 2 of 3

### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1075337

Reported: 02/11/08 at 11:32 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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	<u>Max</u>
Benzene	75		66-112						
1,2-Dichloroethane	107		62-130						
Toluene	72		50-121						*
1,2-Dibromoethane	81		66-108						
Ethylbenzene	69		54-116						
Xylene (Total)	68		52-117						

### 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: 08030A34B

Trifluorotoluene-F'

5267812	92
5267813	94
5267814	86
5267815	89
Blank	99
LCS	101
MS	102
MSD	101

Limits: 61-122

Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080310009A

Orthoterphenyl

27018T7	96
5267813	: 97
5267814	.95
5267815	97
Blank	98
LCS	119
LCSD	112

Limits: 59-129

Analysis Name: TPH Fuels by GC (Soils)

Batch number: 080310010A

	Curorobenzene	orthoterph					
5267812	97	104					
5267813	79	97					
	· · · · · · · · · · · · · · · · · · ·						

526/812	91		104
5267813	79		97
5267814	92	•	98
5267815	88		97
Blank	96		95

#### \*- Outside of specification

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



70-111

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### Quality Control Summary

70-109

Client Name: ChevronTexaco

71-114

Limits:

Group Number: 1075337

Reported: 02/11/08 at 11:32 AM

Surrogate Quality Control

70-123

LCSD	105 109	101		
Limits:	37-125	47-145		
	ame: BTEX+5 Oxygenates+ED er: B080312AA Dibromofluoromethane	C+EDB 1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5267812	103	87	88	95
5267813	104	92	89	94
5267814	105	91	88	84
5267815	105	90	89	84
Blank	100	93	89	84
LCS	97	90	93	92
LCSD	97	85	93	92
MS	100	84	95	97

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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

### Chevron California Region Analysis Request/Chain of Custody

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

# 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	. <b>F</b> .	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	Ī	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

### **Inorganic Qualifiers**

À	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
" <b>D</b>	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E.	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
* .	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
Ų	Compound was not detected		
X,Y,Z	Defined in case narrative		

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

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

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### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1075463. Samples arrived at the laboratory on Thursday, January 31, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description	Lancaster Labs Number
SB-9-S-15-080129 Grab Soil	5268359
SB-9-S-27.5-080129 Grab Soil	5268360
SB-9-S-34.5-080129 Grab Soil	5268361
SB-9-S-46.5-080129 Grab Soil	5268362
SB-9-S-54.5-080129 Grab Soil	5268363

ELECTRONIC	CRA
COPY TO	
ELECTRONIC	CRA
COPV TO	

Attn: Charlotte Evans

Attn: I Hull



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

Respectfully Submitted,

May E Lawy
Max E, Snavely
Senior Specialist



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Page 1 of 2

Dilution

Factor

25

Lancaster Laboratories Sample No.

Group No. 1075463

SB-9-S-15-080129 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected: 01/29/2008 09:20

by IH

Account Number: 10880

Submitted: 01/31/2008 10:10

Reported: 02/12/2008 at 08:39

Discard: 03/14/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

S9-15

		:		As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.			GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	6.36	0.480	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t	t mix calibrati	on in a range th	nat includes		
07361	BTEX+5 Oxygenates+EDC+EDB				•	
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.02
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.02
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.02
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1,.02
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.02
05460	Benzene	71:-43-2	N.D.	0.0005	mg/kg	1.02
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.02
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.02
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.02
05474	Ethylbenzene	100-41-4	N,D.	0.001	mg/kg	1.02
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.02

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 Date and Time Trial# Analysis Name Method No. 01725 TPH-GRO - Soils

Analyst SW-846 8015B modified 1 01/31/2008 22:34 Linda C Pape



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Lancaster Laboratories Sample No. SW5268359

Group No. 1075463

SB-9-S-15-080129 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/29/2008 09:20 by 1

Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

S9-15						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/05/2008 17:21	Diane V Do	1
06955	Lead	SW-846 6010B	1	02/04/2008 10:44	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 12:23	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2008 12:39	Nicholas R Rossi	1.02
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/31/2008 14:58	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/31/2008 14:57	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/31/2008 14:54	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/03/2008 19:10	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/31/2008 14:56	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1



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Page 1 of 2

Lancaster Laboratories Sample No. SW5268360

Group No. 1075463

SB-9-S-27.5-080129 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/29/2008 10:13

Submitted: 01/31/2008 10:10

Reported: 02/12/2008 at 08:39 Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

S9-27

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of TI gasoline constituents eluting prestart time.	PH-GRO does not rior to the C6	include MTBE or (n-hexane) TPH-C	RO range	2	
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	7.92	0.490	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	. 10.	mg/kg	1
	TPH quantitation is based on per that of a hydrocarbon component C8 (n-octane) through C40 (n-ter	mix calibrati	on in a range tha	at includes		
07361	BTEX+5 Oxygenates+EDC+EDB		•			
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.08
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.08
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.08
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.08
02020	t-Butyl alcohol	75-65-0	N.D.	0.022	mg/kg	1.08
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.08
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.08
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.08
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.08
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.08
06301	Xvlene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.08
00201						

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
01725 TPH-GRO - Soils

SW-846 8015B modified 1 01/31/2008 23:09

Linda C Pape

Dilution

Factor
01/31/2008 23:09

Linda C Pape

25



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Lancaster Laboratories Sample No. SW5268360

Group No. 1075463

SB-9-S-27.5-080129 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected: 01/29/2008 10:13

y IH Account Number: 10880

Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39

Reported: 02/12/2008 at 08:. Discard: 03/14/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310

S9-27						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/05/2008 17:41	Diane V Do	1 .
06955	Lead	SW-846 6010B	1	02/04/2008 09:39	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 12:47	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1.	02/01/2008 13:02	Nicholas R Rossi	1.08
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:03	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/31/2008 15:05	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/31/2008 15:02	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/03/2008 19:10	Annamaría Stipkovits	1 .
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:04	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5268361

Group No. 1075463

SB-9-S-34.5-080129 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected: 01/29/2008 10:30

by IH

Account Number: 10880

Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39

Discard: 03/14/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

S9-34

•	•			As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of T gasoline constituents eluting p start time.					
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	12.3	0.485	mg/kg	. 1 .
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on pe that of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibrati	on in a range tĥ	at includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.04
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.04
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.04
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.04
02020	t-Butyl alcohol	75-65-0	N.D.	0.021	mg/kg	1.04
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.04
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.04
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.04
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.04
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.04
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.04

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

Analysis

 Method
 Trial#
 Date and Time

 SW-846
 8015B modified
 1
 01/31/2008
 23:45

Analyst Linda C Pape Dilution Factor 25

CAT



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Lancaster Laboratories Sample No. SW5268361

Group No. 1075463

SB-9-S-34.5-080129 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/29/2008 10:30 by IH

Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

S9-34						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/05/2008 18:01	Diane V Do	1
06955	Lead	SW-846 6010B	1	02/04/2008 10:48	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 13:11	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2008 13:25	Nicholas R Rossi	1.04
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:08	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/31/2008 15:10	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/31/2008 15:09	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/03/2008 19:10	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:11	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1



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Page 1 of 2

Lancaster Laboratories Sample No. SW5268362

Group No. 1075463

SB-9-S-46.5-080129 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/29/2008 11:07

Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39 Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

S9-46

				As Received		
CAT			As Received	Method		Dilutio
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of I gasoline constituents eluting patent time.	orior to the C6	(n-hexane) TPH-	-GRO range		_
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	9.34	0.471	mg/kg	1
02516	TPH Fuels by GC (Soils)	•				
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on per that of a hydrocarbon component C8 (n-octane) through C40 (n-te	: mix calibrati	on in a range th	hat includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.1
02020	t-Butyl alcohol	75-65-0	N.D.	0.022	mg/kg	.1.1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.1.
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.1

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

Analysis

Trial# Date and Time SW-846 8015B modified 1 02/01/2008 00:21 Analyst Linda C Pape Dilution Factor 25

CAT



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Lancaster Laboratories Sample No. SW5268362

Group No. 1075463

SB-9-S-46.5-080129 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/29/2008 11:07

Account Number: 10880

Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39

Discard: 03/14/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

S9-46		•				
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 18:20	Diane V Do	1
	Gel					
06955	Lead	SW-846 6010B	1	02/04/2008 10:53	Joanne M Gates	1.
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 13:34	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2008 20:01	Nicholas R Rossi	1.1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:15	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/31/2008 15:16	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/31/2008 15:14	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/03/2008 19:10	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:17	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2 .	02/04/2008 15:00	Doreen K Robles	1



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Lancaster Laboratories Sample No.

Group No. 1075463

SB-9-S-54.5-080129 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/29/2008 11:36

Submitted: 01/31/2008 10:10

Reported: 02/12/2008 at 08:39

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

S9-54

		•		As Received		
CAT ·			As Received	Method	•	Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the C6	ot include MTBE of (n-hexane) TPH-	-GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	5.77	0.476	mg/kg	1
02516	TPH Fuels by GC (Soils)					
					4-	
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t	t mix calibrat:	ion in a range th	nat includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.09
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.09
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.09
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.09
02020	t-Butyl alcohol	75-65-0	N.D.	0.022	mg/kg	1.09
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.09
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.09
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.09
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.09
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.09
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.09

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

Analysis Name No. 01725 TPH-GRO - Soils

CAT

Trial# Date and Time Method SW-846 8015B modified 1

02/01/2008 00:57

Analyst Linda C Pape Dilution Factor



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Page 2 of 2

Lancaster Laboratories Sample No. SW5268363

Group No. 1075463

SB-9-S-54.5-080129 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected: 01/29/2008 11:36 by

Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

S9-54						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 18:40	Diane V Do	1
	Gel	•				
06955	Lead	SW-846 6010B	1	02/04/2008 10:58	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 13:58	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/01/2008 14.12	Nicholas R Rossi	1.09
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:21	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	01/31/2008 15:24	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	01/31/2008 15:20	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/03/2008 19:10	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	01/31/2008 15:25	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1 .



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### Quality Control Summary

Client Name: ChevronTexaco

Reported: 02/12/08 at 08:39 AM

Group Number: 1075463

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

### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 08030A34B TPH-GRO - Soils	Sample nu N.D.	mber(s):	5268359-52 mg/kg	68363 102		67-119		
Batch number: 080325708002 Lead	Sample nu N.D.	mber(s): 0.490	5268359-52 mg/kg	68363 104		90-110		
Batch number: 080350013A Total TPH TPH Motor Oil C16-C36	Sample nu N.D. N.D.	mber(s): 10. 10.	5268359-52 mg/kg mg/kg	68363 78	80	66-113	3	20
Batch number: 080350013B TPH-DRO by 8015B w/Silica Gel	Sample nu N.D.	mber(s): 4.0	5268359-52 mg/kg	68363 93	96	71-109	2	20
Batch number: B080321AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample nu N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	mber(s): 0.0005 0.001 0.001 0.020 0.0005 0.001 0.001 0.001 0.001	5268359-52 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	68363 104 94 98 98 95 101 127* 99 108	102 93 97 97 97 100 126 97 103 98	72-117 72-120 72-115 73-116 59-154 84-115 76-126 81-116 77-114 82-115 82-117	2 1 2 1 2 1 1 2 5 0	30 30 30 30 30 30 30 30 30 30 30

### 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 <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 08030A34B TPH-GRO - Soils	Sample 97	number(s) 104	: 5268359 39-118	-526836 8	30 30	K: P262899			
Batch number: 080325708002 Lead	Sample 103	number(s) 95	: 5268359 75-125	-526836 5	3 UNSP 20	K: 5268360 7.92	BKG: 5268360 7.51	5	20
Batch number: B080321AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol	Sample 109 99 102 101 97	number(s)	: 5268359 59-119 58-113 60-112 63-112 51-134	-526836	3 UNSP	K: 5268359			

#### \*- Outside of specification

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



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Page 2 of 3

DUP

RPD

DUP

Conc

Dup RPD

Max

### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1075463

BKG

Conc

<u>MAX</u>

Reported: 02/12/08 at 08:39 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

MS/MSD MS MSD %REC %REC <u>Limits</u> Analysis Name 66-112

Benzene 137\* 1,2-Dichloroethane 62-130 98 50-121 Toluene 66-108 1,2-Dibromoethane 106 99 54-116 Ethylbenzene 99 52-117 Xylene (Total)

### 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: 08030A34B Trifluorotoluene-F

5268359 5268360 5268361 94 5268362 82 5268363 86 99 Blank 101 LCS 102 MS MSD 101

61-122 Limits:

Analysis Name: TPH Fuels by GC (Soils)

Batch numb	Chlorobenzene	Orthoterphenyl
E2602E0	0.6	89

5268359	86	89
5268360	74	79
5268361	78	81
5268362	72	71
5268363	83	. 79
Blank	95°	. 95
LCS	104	100
LCSD	107	101

37-125 Limits:

Analysis Name: TPH-DRO by 8015B w/Silica Gel

Batch number: 080350013B Orthoterphenyl

5268359	94
5268360	87
5268361	84

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1075463

Reported: 02/12/08 at 08:39 AM

Surrogate Quality Control

5268362 78 5268363 81 Blank 102 LCS 118 LCSD 121

Limits: 59-129

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

,	er: B080321AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzen
5268359	99	86	90	83
5268360	101	87	89	81
5268361	102	88	89	83
5268362	99	93	87	. 84
5268363	103	88	89	83
Blank	103	91	89	86
LCS	99	89	93	94
LCSD	98	91	92	93
MS	101	90	93	.97
Limits:	71-114	70-109	70-123	70-111

\*- Outside of specification

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

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

#### Group 1075463 75 7 (63) For Lancaster Laboratories use only Acct. # 108 80 Sample # 52683 59 - 363 ▲ Lancaster Laboratories Ø13BB8-14 Where quality is a science. Analyses Requested Preservation Codes Preservative Codes Facility #: 30-7233 H = HCIT = Thiosulfate Site Address: 2259 First St., Livernare, CA $N = HNO_3$ B = NaOH $S = H_2SO_4$ O = Other Chevron PM: IAN ROBB \_Lead Consultant: <u>CR</u>P 23 Total Number of Containers J value reporting needed Silica Gel Consultant/Office: Emergille (A ☐ Must meet lowest detection limits possible for 8260 compounds Consultant Prj. Mgr.: C. EVANS 8 Consultant Phone #: 510-420-3344 Fax # 510/ 420-917-0 8021 MTBE Confirmation 8260) Confirm highest hit by 8260 Sampler: T. HULL Confirm all hits by 8260 Service Order #: ☐ Non SAR: Run \_\_\_\_ oxy's on highest hit Grab Field Repeat Top Run \_\_\_\_ oxy's on all hits Depth Year Month Day Point Name Matrix Sample 15 OF OI 29 27.5 08 OI 29 34.5 08 OI 29 46.5 08 OI 29 Comments / Remarks 920 Please email EDF S13#9-15 1013 to dehave Ocraword, X 1030 com × email results to χ × 1107 X 54,50% 0129 inul@crawork.com cevance craworld com

Chevron California Region Analysis Request/Chain of Custody

Received by: SECUPE

Received by:

0140

Custom Seals Intact

Date 1/24/08

300 TAMOS

Pete

1730

Time

150

Time

Date

Date

N98

Date

Date

Yes ZNO

Time

Time

1510

Time

Time

1000

3460 Rev. 10/04/01

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Relinquished by

anc

Relinquished by Commercial Carrier:

Temperature Upon Receipt 05-4-0 C°

FedEx

Turnaround Time Requested (TAT) (please circle)

Data Package Options (please circle if required)

72 hour

4 day

Type I - Full

Coelt Deliverable not needed

48 hour

5 day

CTD. TAD

QC Summary

WIP (RWQCB)

Disk

Type VI (Raw Data)

# 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
С	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)	, I	liter(s)
mĪ	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per r

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

### Inorganic Qualifiers

ml

	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
E	Analyte was also detected in the blank	Е	Estimated due to interference
	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
	Compound quatitated on a diluted sample	N	Spike amount not within control limits
		S	Method of standard additions (MSA) used
	the instrument		for calculation
,	Estimated value	U	Compound was not detected
1	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
F		*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
ŧ	Compound was not detected		
X,Y,Z	Z Defined in case narrative		

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1075465. Samples arrived at the laboratory on Thursday, January 31, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description
SB-9-W-080129 Grab Water

.

Attn: Charlotte Evans

Lancaster Labs Number

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: I Hull

5268370



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

Respectfully Submitted,

Susan M. Goshert

Duran M Goshard

Group Leader



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Lancaster Laboratories Sample No. WW5268370

Group No. 1075465

SB-9-W-080129 Grab Water Facility# 307233 CETE 2259 First St-Livermore T0600196622 SB-9 Collected: 01/29/2008 13:30

Account Number: 10880

Submitted: 01/31/2008 10:10 Reported: 03/05/2008 at 17:36 ChevronTexaco

Discard: 04/05/2008

6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

LIV-9

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	1,000.	50.	ug/l	1
<b>4 -</b> 1 2	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the Co	ot include MTBE of (n-hexane) TPH	-GRO range	<b>/</b> =	
02202	TPH-DRO (Water) w/Si Gel	n.a.	490.	290.	ug/l	1
	Due to the nature of the sampl	e matrix, a red	duced aliquot was	s used		
	for analysis. The reporting 1	imits were rais	sed accordingly.			
07055	Lead	7439-92-1	362.	34.5	ug/l	1
		V				
02500	TPH Fuels by GC (Waters)					
02501	Total TPH	n.a.	450.	400.	ug/l	. 1
02508	TPH Motor Oil C16-C36	n.a.	450.	400.	ug/l	1
	C8 (n-octane) through C40 (n-t Due to the nature of the sampl for analysis. The reporting l The Chlorobenzene surrogate da matrix problems evident in the	e matrix, a reinmits were rainta is outside	duced allquot wa sed accordingly. the QC limits du	s used		
06058	BTEX+5 Oxygenates+EDC+EDB					
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
	- t-Butyl alcohol	75-65-0	N.D.	2.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1 .
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415		100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.5	0.5	ug/l	1

Preservation requirements were not met. 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.



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Lancaster Laboratories Sample No. WW5268370

Group No. 1075465

SB-9-W-080129 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB-9

Collected:01/29/2008 13:30

оу ін

Account Number: 10880

Submitted: 01/31/2008 10:10 Reported: 03/05/2008 at 17:36

Discard: 04/05/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LIV-9

As Received

CAT

As Received

Method

Dilution

No.

Analysis Name

CAS Number

Result

Detection Limit Units

Factor

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

	HODOLGCOL y	O111 O.	111010		
	_		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
TPH-GRO - Waters	SW-846 8015B modified	1	02/01/2008 15:36	Steven A Skiles	1
TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	02/04/2008 16:06	Diane V Do	1
Lead	SW-846 6010B	1	02/02/2008 11:16	Choon Y Tian	1
TPH Fuels by GC (Waters)	SW-846 8015B modified	1	02/05/2008 01:56	Matthew E Barton	1
BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 13:49	Ginelle L Feister	1
GC VOA Water Prep	SW-846 5030B	1	02/01/2008 15:36	Steven A Skiles	1
GC/MS VOA Water Prep	SW-846 5030B	1	02/06/2008 13:49	Ginelle L Feister	1
WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	02/01/2008 23:55	Helen L Schaeffer	1
Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	02/03/2008 10:45	Kelli M Knapp	1
Extraction - DRO (Waters)	SW-846 3510C	1	02/03/2008 10:45	Kelli M Knapp	1
	TPH-GRO - Waters TPH-DRO (Water) w/Si Gel Lead TPH Fuels by GC (Waters) BTEX+5 Oxygenates+EDC+EDB GC VOA Water Prep GC/MS VOA Water Prep WW SW846 ICP Digest (tot rec) Extraction - Fuel/TPH (Waters)	Analysis Name  TPH-GRO - Waters  TPH-DRO (Water) w/Si Gel Lead  SW-846 8015B modified  SW-846 8015B	Analysis Name	Analysis Name         Method         Trial#         Date and Time           TPH-GRO - Waters         SW-846 8015B modified         1 02/01/2008 15:36           TPH-DRO (Water) w/Si Gel         SW-846 8015B 1 02/04/2008 16:06           Lead         SW-846 6010B 1 02/02/2008 11:16           TPH Fuels by GC (Waters)         SW-846 8015B modified 1 02/05/2008 01:56           BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 02/06/2008 13:49           GC VOA Water Prep SW-846 5030B 1 02/01/2008 15:36           GC/MS VOA Water Prep SW-846 5030B 1 02/06/2008 13:49           WW SW846 ICP Digest (tot SW-846 3005A 1 02/01/2008 23:55           rec)           Extraction - Fuel/TPH SW-846 3510C 1 02/03/2008 10:45	Analysis Name



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Page 1 of 3

### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1075465

Reported: 03/05/08 at 05:36 PM

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 <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 080321848001 Lead	Sample num	nber(s): 6.9	5268370 ug/l	102		90-113		
Batch number: 08032A08A TPH-GRO - Waters	Sample num	mber(s): 50.	5268370 ug/1	100	100	75-135	0	30
Batch number: 080330012A TPH-DRO (Water) w/Si Gel	Sample nur	mber(s): 29.	5268370 ug/l	98	96	60-124	1	20
Batch number: 080330013A Total TPH TPH Motor Oil C16-C36	Sample nur N.D. N.D.	mber(s): 40. 40.	5268370 ug/l ug/l	84	85	60-120	1	20
Batch number: D080371AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample num N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	mber(s): 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	5268370  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l	100 111 105 100 97 105 96 106 97 104 105		73-119 70-123 74-120 79-113 74-117 78-119 69-135 85-115 81-114 82-119 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 <u>%REC</u>	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
 -Batch-number: 080321848001 Lead	Sample :	number(s) 101	: 5268370 75-125	UNSPK:	P26757 20	3 BKG: P267 9.4	573 13.3	35* (1)	20
Batch number: 08032A08A TPH-GRO - Waters	Sample:	number(s)	: 5268370 63-154	UNSPK:	P26826	59			
Batch number: D080371AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether	102 116 108	101 115 107	: 5268370 69-127 68-129 78-119	0 1 0	30 30 30				
t-Amyl methyl ether	102	104	72-125	2	30				

70-121

#### \*- Outside of specification

t-Butyl alcohol

(1) The result for one or both determinations was less than five times the LOQ.

96

95

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



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Page 2 of 3

### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1075465

Reported: 03/05/08 at 05:36 PM

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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	RPD	$\underline{MAX}$	<u>Conc</u>	Conc	<u>RPD</u>	Max
Benzene	112	111	83-128	1	30				
1.2-Dichloroethane	94	94	70-143	1.	30				
Toluene	111	112	83-127	1	30				
1,2-Dibromoethane	101	99	78-120	2	30				
Ethylbenzene	108	108	82-129	0	30				
Xylene (Total)	110	111	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 - Waters Batch number: 08032A08A Trifluorotoluene-F

5268370	88
Blank	80
LCS	84
LCSD	87
MS	83

Limits: 63-135

Analysis Name: TPH-DRO (Water) w/Si Gel

Batch number: 080330012A Orthoterphenyl

5268370	99
Blank	99
LCS	115
LCSD	115

Limits: 59-131

Analysis Name: TPH Fuels by GC (Waters)

Batch number: 080330013A Chlorobenzene

5268370	163*	93		
Blank LCS	103	96		
LCS	97	100		
LCSD	99	101		
Y 12 2	20 152	52-131		

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch number: D080371AA

Dibromofluoromethane

1,2-Dichloroethane-d4

Orthoterphenyl

Toluene-d8

4-Bromofluorobenzene

<sup>\*-</sup> Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.



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Page 3 of 3

### Quality Control Summary

	ame: ChevronTex : 03/05/08 at 0		Group Number: 1075465						
Reported	00,00,00 00		ogate Quality Contro	01					
5268370	90	95	95	102					
Blank	88	94	94	97					
LCS	88	93	94	101					
MS	86	93	92	99					
MSD	87	94	92	98					
Limits:	80-116	77-113	80-113	78-113					

\*- Outside of specification

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

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

# Chevron California Region Analysis Request/Chain of Custody

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## Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D. TNTC IU umhos/cm C Cal meq g	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s)	BMQL MPN CP Units NTU F Ib. kg mg	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
mi	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

- 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:

X,Y,Z

#### **Organic Qualifiers**

Defined in case narrative

A B C	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS	B E M	Value is <crdl, but="" ≥idl<br="">Estimated due to interference Duplicate injection precision not met</crdl,>
Ď	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Ρ	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1075607. Samples arrived at the laboratory on Friday, February 01, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Lancaster Labs Number	
5269393	
5269394	
5269395	
5269396	
5269397	
5269398	
5269399	

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: I Hull



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

Respectfully Submitted,

May E Lawy
Max E. Snavely
Senior Specialist



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Lancaster Laboratories Sample No. SW5269393

Group No. 1075607

SB7-S-9.5-080130 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7

Collected:01/30/2008 09:00

Submitted: 02/01/2008 10:00

Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23371

		•	, r	As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of I gasoline constituents eluting patent time.	TPH-GRO does no orior to the C6	t include MTBE o (n-hexane) TPH-	GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	. 1
06955	Lead	7439-92-1	8.30	0.476	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	. 1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
07361	that of a hydrocarbon component C8 (n-octane) through C40 (n-to BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.96
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.96
02017	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.96
02010	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.96
02019	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.96
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.96
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.96
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.96
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.96
05471	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.96
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.96
00301	Myrene (rocar)	**** TO 1		<del></del>		

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

Analysis

Trial# Date and Time

02/05/2008 00:08

Linda C Pape

Dilution Factor 25

CAT Analysis Name No. 01725 TPH-GRO - Soils

SW-846 8015B modified 1



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Lancaster Laboratories Sample No. SW5269393

Group No. 1075607

SB7-S-9.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7

Collected: 01/30/2008 09:00 by IH Account Number: 10880

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

23371						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 19:00	Diane V Do	1
	Gel			00/05/0000 00 11	Joanne M Gates	1
06955	Lead	SW-846 6010B	1	02/05/2008 09:11		<u> </u>
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	. 1	02/05/2008 15:57	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 11:53	Nicholas R Rossi	0.96
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/01/2008 19:16	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/01/2008 19:18	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	- 1	02/01/2008 19:21	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/01/2008 19:20	Lois E Hiltz	n.a.
	, -		1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	Τ.	,,		-
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5269394

Group No. 1075607

SB7-S-19.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7 Collected:01/30/2008 09:10 by IH

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23372

CAT

No.

01725

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of T gasoline constituents eluting p start time.	PH-GRO does no rior to the C6	t include MTBE of (n-hexane) TPH-	-GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	4.70	0.476	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02310	IFN Fuels by GC (SOIIS)			`.		
02518	Total TPH	n.a.	N.D.	10.	mg/kg	. 1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	. 1
	TPH quantitation is based on pe that of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibrati	on in a range th	nat includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.98
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.98
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.98
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.98
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.98
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.98
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.98
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.98
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.98
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.98
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.98
	- ·					

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

Analysis

 Analysis Name
 Method
 Trial#
 Date and Time

 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/05/2008 00:47

Analyst Linda C Pape Dilution Factor 25



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Page 2 of 2

Lancaster Laboratories Sample No. SW5269394

Group No. 1075607

SB7-S-19.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7 Collected:01/30/2008 09:10 by IH

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23372	and the state of t					
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/05/2008 19:19	Diane V Do	1
06955	Lead	SW-846 6010B	1	02/05/2008 09:16	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 16:21	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 12:17	Nicholas R Rossi	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/01/2008 19:31	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/01/2008 19:33	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/01/2008 19:37	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1 .
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/01/2008 19:35	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5269395

Group No. 1075607

SB7-S-29.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7 Collected:01/30/2008 09:15

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23373

CAT

No.

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	3.7.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.	orior to the C6	(n-hexane) TPH-	GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	10.5	0.490	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-te	t mix calibrāti	on in a range tĥ	nat includes		
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 <b>-</b> 65-0	N.D.	0.020	mg/kg	. 1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	. 1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

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

Laboratory Chronicle

Analysis Dilution Analysis Name Trial# Date and Time Factor Analyst TPH-GRO - Soils 01725 SW-846 8015B modified 1 02/05/2008 01:25 Linda C Pape



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Page 2 of 2

Lancaster Laboratories Sample No. SW526939

Group No. 1075607

SB7-S-29.5-080130 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7

Collected:01/30/2008 09:15 by

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

233/3						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 19:39	Diane V Do	1
	Gel					_
06955	Lead	SW-846 6010B	1	02/05/2008 07:53	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 16:45	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 12:40	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/01/2008 19:49	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/01/2008 19:50	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/01/2008 19:53	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/01/2008 19:52	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5269396

Group No. 1075607

SB7-S-34.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7 Collected:01/30/2008 09:35 by IH

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23374

			As Received		
		As Received	Method		Dilution
Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
gasoline constituents eluting start time.	prior to the C6	(n-hexane) TPH-	-GRO range		
<u>-</u>					1
Lead	7439-92-1	11.6	0.485	mg/kg	1
TPH Fuels by GC (Soils)					
Total TPH	n.a.	N.D.	10.	mg/kg	1
TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
that of a hydrocarbon componen	t mix calibrāti	on in a range th	hat includes		
BTEX+5 Oxygenates+EDC+EDB					
Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
Toluene	108-88-3	N.D.	0.001	mg/kg	9.00
					0.99
1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	
1,2-Dibromoethane Ethylbenzene	106-93-4 100-41-4	N.D. N.D.	0.001 0.001		0.99
	TPH-GRO - Soils The reported concentration of gasoline constituents eluting start time. TPH-DRO by 8015B w/Silica Gel Lead  TPH Fuels by GC (Soils)  Total TPH TPH Motor Oil C16-C36 TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-text) BTEX+5 Oxygenates+EDC+EDB  Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane	TPH-GRO - Soils n.a.  The reported concentration of TPH-GRO does no gasoline constituents eluting prior to the Constituents eluting prior to t	TPH-GRO - Soils n.a. N.D. The reported concentration of TPH-GRO does not include MTBE of gasoline constituents eluting prior to the C6 (n-hexane) TPH-start time. TPH-DRO by 8015B w/Silica Gel n.a. N.D. Lead 7439-92-1 11.6  TPH Fuels by GC (Soils)  Total TPH n.a. N.D. TPH Motor Oil C16-C36 n.a. N.D. TPH quantitation is based on peak area comparison of the sample to the call bration in a range to C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbon by BTEX+5 Oxygenates+EDC+EDB  Methyl Tertiary Butyl Ether 1634-04-4 N.D. di-Isopropyl ether 108-20-3 N.D. Ethyl t-butyl ether 637-92-3 N.D. t-Amyl methyl ether 994-05-8 N.D. t-Butyl alcohol 75-65-0 N.D. Benzene 71-43-2 N.D. 1,2-Dichloroethane 107-06-2 N.D.	Analysis Name  CAS Number  Result  Detection Limit  TPH-GRO - Soils  N.D.  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 TPH-DRO by 8015B w/Silica Gel  N.D.  Lead  7439-92-1  11.6  TOTAL TPH  N.A.  N.D.  TOTAL TPH  N.A.  N.D.  TPH Quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.  BTEX+5 Oxygenates+EDC+EDB  Methyl Tertiary Butyl Ether  108-20-3  N.D.  0.0005  di-Isopropyl ether  108-20-3  N.D.  0.001  Ethyl t-butyl ether  637-92-3  N.D.  0.001  t-Amyl methyl ether  994-05-8  N.D.  0.0020  Benzene  71-43-2  N.D.  0.0005  1,2-Dichloroethane	Analysis Name  CAS Number  Result  Detection Limit  TPH-GRO - Soils  N.D.  1.0  mg/kg  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.  TPH-DRO by 8015B w/Silica Gel  7439-92-1  Total TPH  N.a.  N.D.  10.  mg/kg  TPH Motor Oil C16-C36  N.a.  N.D.  TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.  BTEX+5 Oxygenates+EDC+EDB  Methyl Tertiary Butyl Ether  1634-04-4  N.D.  0.0005  mg/kg  Ethyl t-butyl ether  637-92-3  N.D.  0.001  mg/kg  Ethyl t-butyl ether  994-05-8  N.D.  0.001  mg/kg  t-Butyl alcohol  75-65-0  N.D.  0.0005  mg/kg  Benzene

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
 Analysis
 Analysis
 Dilution

 No.
 Analysis Name
 Method
 Trial#
 Date and Time
 Analyst
 Factor

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/05/2008 02:04
 Linda C Pape
 25



Doreen K Robles

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Page 2 of 2

Lancaster Laboratories Sample No. SW5269396

Group No. 1075607

SB7-S-34.5-080130 Grab Soil

Facility# 307233 CETE

Discard: 03/14/2008

07004

2259 First St-Livermore T0600196622 SB7

Collected:01/30/2008 09:35

bv IH

SW-846 3550B

Account Number: 10880

Submitted: 02/01/2008 10:00

Reported: 02/12/2008 at 13:07

Extraction - DRO (Soils)

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

02/04/2008 15:00

23374						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 19:59	Diane V Do	1
	Gel			/ /		4
06955	Lead	SW-846 6010B	1	02/05/2008 09:21	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	. 1	02/05/2008 17:09	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 13:03	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/01/2008 20:03	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/01/2008 20:04	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/01/2008 20:08	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/01/2008 20:06	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5269397

Group No. 1075607

SB6-S-9.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 Collected:01/30/2008 12:05 by IH

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### 23361

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.		(n-hexane) TPH-	GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	6.39	0.485	. mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t	t mix calibrati	ion in a range th	nat includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.98
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.98
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.98
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.98
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.98
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.98
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.98
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.98
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.98
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.98
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	. 0.98
	the contract of the contract o					

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
 Analysis Sname
 Dilution

 No.
 Analysis Name
 Method
 Trial#
 Date and Time
 Analyst
 Factor

 01725
 TPH-GRO - Soils
 SW-846
 8015B modified
 1
 02/05/2008
 02:42
 Linda C Pape
 25



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Page 2 of 2

Lancaster Laboratories Sample No. SW5269397

Group No. 1075607

SB6-S-9.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 Collected:01/30/2008 12:05 by IH

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23361							
02222	TPH-DRO by 8015B w/Silica	SW-846	8015B	1	02/05/2008 20:18	Diane V Do	1
	Gel						
06955	Lead	SW-846	6010B	1	02/05/2008 09:34	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846	8015B modified	1	02/05/2008 17:33	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846	8260B	1	02/06/2008 13:26	Nicholas R Rossi	0.98
00374	GC/MS - Bulk Sample Prep	SW-846	5030A	1	02/01/2008 20:15	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846	5030A	2	02/01/2008 20:17	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846	5030A	1	02/01/2008 20:19	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846	3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846	5030A	1	02/01/2008 20:18	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846	3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846	3550B	2	02/04/2008 15:00	Doreen K Robles	1



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SW5269398 Lancaster Laboratories Sample No.

Group No. 1075607

SB6-S-19.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 Collected: 01/30/2008 12:15

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07 Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23362

CAT

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
01725	TPH-GRO - Soils		N.D.	Limit 1.0	mg/kg	25
01725	The reported concentration of T gasoline constituents eluting p start time.	n.a. PH-GRO does no rior to the C6	t include MTBE o	or other	iig/ kg	
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	5.79	0.485	mg/kg	1 .
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on pe that of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibrati	on in a range th	nat includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.99
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99
	-					

State of California Lab Certification No. 2116

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

Laboratory Chronicle

Analysis

Date and Time Analysis Name No. SW-846 8015B modified 02/05/2008 03:21 TPH-GRO - Soils 01725

Analyst

Dilution Factor 25



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Lancaster Laboratories Sample No. SW5269398

Group No. 1075607

SB6-S-19.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 Collected:01/30/2008 12:15 by IH

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23362						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 20:38	Diane V Do	1
	Gel			/ /		-
06955	Lead	SW-846 6010B	1	02/05/2008 09:39	Joanne M Gates	T
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/05/2008 17:56	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 13:50	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/01/2008 20:26	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/01/2008 20:28	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/01/2008 20:31	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/01/2008 20:29	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5269399

Group No. 1075607

SB6-S-24-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 by IH Collected: 01/30/2008 12:20

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### 23363

CAT

				As Received		
CAT			As Received	Method		Dilutio
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the C6	t include MTBE ( (n-hexane) TPH-	or other -GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
0,6955	Lead	7439-92-1	10.9	0.476	mg/kg	1
00516	MDM Finals has GC (Godle)					
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
07361	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t BTEX+5 Oxygenates+EDC+EDB	ıt mix calibrati	on in a range th	hat includes		
0/361	BIEX+5 Oxygenaces+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.96
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.96
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.96
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.96
02020	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.96
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.96
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.96
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.96
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.96
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.96
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.96

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

Analysis

Trial# Date and Time Analyst Method No. Analysis Name SW-846 8015B modified 1 02/05/2008 03:59 01725 TPH-GRO - Soils

Linda C Pape

Dilution Factor 25



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Page 2 of 2

Lancaster Laboratories Sample No. SW5269399

Group No. 1075607

SB6-S-24-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 Collected:01/30/2008 12:20 by IH

Submitted: 02/01/2008 10:00 Reported: 02/12/2008 at 13:07

Discard: 03/14/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

23363	3					_
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 20:58	Diane V Do	1
	Gel		-1	02/05/2008 09:44	Joanne M Gates	1
06955	Lead	SW-846 6010B	T			1.
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1 .	02/05/2008 18:20	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 14:14	Nicholas R Rossi	0.96
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/01/2008 20:41	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/01/2008 20:42	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/01/2008 20:45	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/01/2008 20:43	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/04/2008 15:00	Doreen K Robles	1
		SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	2M-040 3330D	2	02/01/2000 13:00	2010011 10 7107-1-1	_



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### Quality Control Summary

Client Name: ChevronTexaco

Reported: 02/12/08 at 01:07 PM

Group Number: 1075607

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 mathed

### Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	<u>Result</u>	MDL	<u>Units</u>	%REC	%REC	<u>Limits</u>	RPD	RPD Max
Batch number: 080350013A	Sample nu	mber(s):	5269393-52	69399				
Total TPH	N.D.	10.	mg/kg	78	80	66-113	3	20
TPH Motor Oil C16-C36	N.D.	10.	mg/kg	-				
Batch number: 080350013B	Sample nu	mber(s):	5269393-52	69399	•			
TPH-DRO by 8015B w/Silica Gel	N.D.	4.0	mg/kg	93	96	71-109	2	20
Batch number: 080355708002	Sample nu	mber(s):	5269393-52	69399				
Lead	N.D.	0.490	mg/kg	105		90-110		
Batch number: 08035A33A	Sample nu	mber(s):	5269393-52	69399				
TPH-GRO - Soils	N.D.	1.0	mg/kg	95		67-119		•
Batch number: B080371AA	Sample nu	mber(s):	5269393-52	69399				
Methyl Tertiary Butyl Ether	N.D.	0.0005		100	104	72-117	5	30
di-Isopropyl ether	N.D.	0.001	mg/kg	100	101	72-120	1	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	100	101	72-115	1	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	98	101	73-116	3	30
t-Butyl alcohol	N.D.	0.020	mg/kg	105	105	59-154	0	30
Benzene	N.D.	0.0005	mg/kg	99	101	84-115	2	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	105	108	76-126	3	30
Toluene	N.D.	0.001	mg/kg	1.01	103	81-116	2	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	102	106	77-114	4	30
Ethylbenzene	N.D.	0.001	mg/kg	99	99	82-115	0	30
Xylene (Total)	N.D.	0.001	mg/kg	100	101	82-117	0	30

### 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 <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 080355708002 _Lead	Sample 1	number(s) 91		-526939 8	9 UNSPI 20	K: 5269395 10.5	BKG: 5269395 9.95	6	20
Batch number: 08035A33A TPH-GRO - Soils	Sample 1	number(s) 40	: 5269393 39-118	-526939 6	9 UNSP	K: P268441	· · .		
Batch number: B080371AA	Sample	number(s)	: 5269393	-526939	9 UNSP	K: 5269393			
Methyl Tertiary Butyl Ether	106		59-119						
di-Isopropyl ether	103		58-113			*			
Ethyl t-butyl ether	100		60-112						
t-Amyl methyl ether	102		63-112						,
t-Butyl alcohol	118		51-134						

### \*- Outside of specification

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



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Page 2 of 3

### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1075607

Reported: 02/12/08 at 01:07 PM

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

	MS	MSD	ms/msd		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	<u>Limits</u>	<u>RPD</u>	MAX	Conc	Conc	<u>RPD</u>	<u>Max</u>
Benzene	99		66-112						
1,2-Dichloroethane	113		62-130						
Toluene	99		50-121						
1,2-Dibromoethane	107		66-108						
Ethylbenzene	97		54-116						
Xylene (Total)	99		52-117						

### 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 Fuels by GC (Soils) Batch number: 080350013A Chlorobenzene

Baccii iidiid	Chlorobenzene	Orthoterphenyl	
5269393	79	75	
5269394	68	73	
5269395	86	89	
5269396	73	72	
5269397	78	80	
5269398	87	95	
5269399	79	87	
Blank	95	95	•
LCS	104	100	
LCSD	107	101	
Limite	37-125	47-145	

Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080350013B

Orthoterphenyl

5269393	79	
5269394	77	
5269395	98	
5269396	76	
5269397	87	
5269398	103	
5269399	98	-
-Blank-	102	
LCS	118	
LCSD	121	

Limits: 59-129

Analysis Name: TPH-GRO - Soils

Batch number: 08035A33A Trifluorotoluene-F

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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



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### Quality Control Summary

70-109

Client Name: ChevronTexaco

Group Number: 1075607

Reported: 02/12/08 at 01:07 PM

Surrogate Quality Control

5269393 5269394	93 100
5269395	.97
5269396	97
5269397	93
5269398	102
5269399	93
Blank	108
LCS	106
MS	97
MSD	101

Limits:

Limits:

71-114

Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080371AA 1,2-Dichloroethane-d4 Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene 102 82 92 93 95 Blank 102 LCS LCSD 70-111

70-123

\*- Outside of specification

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

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

#### Chevron California Region Analysis Request/Chain of Custody ▲ Lancaster Laboratories .Acct. #: <u>10880</u> Sample #: <u>\$269393 - 3**%** 399</u> 013108-04 @ By 356 2/1/08 Where quality is a science, Group 1075607 Analyses Requested Preservation Codes Preservative Codes Facility #: 30 - 7233 (AIL) T = Thiosulfate H = HCL Site Address: 2259 FIRST ST. LIVERMORE, CA N = HNO<sub>3</sub> B = NaOH Gel Cleanup SCANS. O = Other $S = H_2SO_4$ Chevron PM: I. POBB Lead Consultant: CRA Total Number of Containers ☐ J value reporting needed **25** 8021 Consultant/Office: EMERYVILLE, (A ☐ Must meet lowest detection limits Consultant Prj. Mgr.: C. EVANS possible for 8260 compounds X Consultant Phone #: 510-420 - 3344 Fax #: 510-420 - 9170 8021 MTBE Confirmation ☐ Confirm highest hit by 8260 Sampler: 1H 7420 Confirm all hits by 8260 Service Order#: ■ Non SAR: Run \_\_\_\_ oxy's on highest hit Time Field Repeat Top ☐ Run \_\_\_\_ oxy's on all hits Depth Year Month Day Collected Field Pt Point Name Matrix Sample Comments / Remarks SB7-9.5 5 08:01 30 0900 SB7-19.5 19,5 PLEASE E-MAIL 0910 × $\times$ PESULTS TO: 29.5 × × 587-29. 0915 × <u>></u>-(evans > @craworld. × 34.5 ١ SB7-345 0995 34.0 5BG-9.5 1205 9.5 EPF DATA TO: 586-19.5 1 X × 1215 19.5 1 × 586-24 24 1220 dohore ocraworld. COM Time Relinquished by: SECUPE LOCATION Turnaround Time Requested (TAT) (please circle) 13068 1610 (STD. TAT) 72 hour 48 hour Date 1/3//08 Time Time irsZ 11:50 24 hour 4 day 5 day Time Time Data Package Options (please circle if required) Type ( - Full Time by Commercial Carrier: Coelt Deliverable not needed Type VI (Raw Data) Other Duc 1000

Temperature Upon Receipt 1-0-3-1 C°

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO 20x 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Customy Seals Intact?

كعلمة

3460 Rev. 10/04/01

Yes

WIP (RWQCB)

Disk

### **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)
meg	milliequivalents	kg	kilogram(s)
•	gram(s)	mg	milligram(s)
g ug	microgram(s)	Ĭ	liter(s)
ug ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<		ne sign is the <u>limit of</u> pecific test.	quantitation, the smallest amount of analyte which can

- greater than
- parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. ppm 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.

Inorganic Qualifiers

- parts per billion ppb
- Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight concentration to approximate the value present in a similar sample without moisture. basis

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
Č	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
Ď	Compound quatitated on a diluted sample	N	Spike amount not within control limits
F	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
_	the instrument		for calculation
J	Estimated value	U	Compound was not detected
Ň	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
• .	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995

Compound was not detected U

confirmation columns >25%

Defined in case narrative X,Y,Z

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1075634. Samples arrived at the laboratory on Friday, February 01, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client DescriptionLancaster Labs NumberSB7-W-080130 Grab Water5269524SB6-W-080130 Grab Water5269525

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: I Hull



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

Respectfully Submitted,

Susan M. Goshert

Group Leader



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Lancaster Laboratories Sample No. WW5269524

Group No. 1075634

SB7-W-080130 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7 Collected:01/30/2008 09:50 by IH

Submitted: 02/01/2008 10:00 Reported: 02/13/2008 at 12:11

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### LVSB7

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	3,000.	50.	ug/l	1
a.	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the C6	ot include MTBE of (n-hexane) TPH-	or other -GRO range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	6,400.	290.	ug/l	1
	Due to the nature of the sampl for analysis. The reporting l			s used		
02500	TPH Fuels by GC (Waters)					
	-					
02501	Total TPH	n.a.	N.D.	400.	ug/l	1
02508	TPH Motor Oil C16-C36	n.a.	N.D.	400.	ug/l	1
	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t Due to the nature of the sampl for analysis. The reporting 1 The surrogate data is outside problems evident in the sample	t mix calibraticetracontane) not e matrix, a recimits were raise the QC limits of	ion in a range th ormal hydrocarbon duced aliquot was sed accordingly.	nat includes ns. s used		
06058	BTEX+5 Oxygenates+EDC+EDB					
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	16.	2.	ug/1	1 .
05401	Benzene	71-43-2	N.D.	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
-0.5407	Toluene	108-88-3	N.D.	0.5	ug/l	1 .
05412	1,2-Dibromoethane	106-93-4	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

Preservation requirements were not met. 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 = 4.

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



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Lancaster Laboratories Sample No. WW5269524

Group No. 1075634

SB7-W-080130 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB7 Collected:01/30/2008 09:50

Submitted: 02/01/2008 10:00 Reported: 02/13/2008 at 12:11

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LVSB7

CAT No.

Analysis Name

CAS Number

As Received

As Received Method

Detection

Units

Dilution Factor

Limit

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				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1 1	02/05/2008 22:47	Steven A Skiles	1
02202	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1.	02/05/2008 21:57	Diane V Do	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1 1	02/09/2008 04:59	Matthew E Barton	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/06/2008 17:04	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/05/2008 22:47	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/06/2008 17:04	Ginelle L Feister	1
02376	Extraction - Fuel/TPH	SW-846 3510C	1	02/04/2008 12:45	Kelli M Knapp	1
07003	(Waters) Extraction - DRO (Waters)	SW-846 3510C	1	02/05/2008 10:00	Jason A Heisey	1



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Page 1 of 2

Lancaster Laboratories Sample No. WW5269525

Group No. 1075634

SB6-W-080130 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 Collected:01/30/2008 12:45 by IH

Submitted: 02/01/2008 10:00 Reported: 02/13/2008 at 12:11

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### LVSB6

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
01728	TPH-GRO - Waters	n.a.	110.	Limit 50	ug/l	1 .
	The reported concentration of T gasoline constituents eluting p start time.	rior to the C6	(n-hexane) TPH-	GRO range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	300.	290.	ug/l	1
	Due to the nature of the sample			used		
	for analysis. The reporting li	mits were rais	ed accordingly.			
02500	TPH Fuels by GC (Waters)					
					/3:	1
02501	Total TPH	n.a.	N.D.	400.	ug/l	1
02508	TPH Motor Oil C16-C36	n.a.	N.D.	400.	ug/l	1
	TPH quantitation is based on perthat of a hydrocarbon component C8 (n-octane) through C40 (n-ten) bue to the nature of the sample	. mix calibrati :tracontane) no	on in a range thormal hydrocarbon	nat includes ns.		
	for analysis. The reporting li	mits were rais	sed accordingly.			
06058	BTEX+5 Oxygenates+EDC+EDB					
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.	2, .	ug/l	1
05401	Benzene	71-43-2	3.	0.5	ug/l	. 1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	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.



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Page 2 of 2

Lancaster Laboratories Sample No. WW5269525

Group No. 1075634

SB6-W-080130 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB6 Collected: 01/30/2008 12:45

Submitted: 02/01/2008 10:00 Reported: 02/13/2008 at 12:11 Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LVSB6

Laboratory Chronicle

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1 1	02/05/2008 23:16	Steven A Skiles	1
02202	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	02/05/2008 22:17	Diane V Do	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1 1	02/09/2008 05:23	Matthew E Barton	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1.	02/06/2008 17:27	Ginelle L Feister	1.
01146	GC VOA Water Prep	SW-846 5030B	1	02/05/2008 23:16	Steven A Skiles	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/06/2008 17:27	Ginelle L Feister	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	. 1	02/04/2008 12:45	Kelli M Knapp	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	02/05/2008 10:00	Jason A Heisey	1 · .



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Page 1 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/13/08 at 12:11 PM

Group Number: 1075634

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 <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 080350004A TPH-DRO (Water) w/Si Gel	Sample no	umber(s): 29.	5269524-52 ug/l	69525 98	98	60-124	0	20
Batch number: 080350028A Total TPH TPH Motor Oil C16-C36	Sample n N.D. N.D.	umber(s): 40. 40.	5269524-52 ug/1 ug/1	69525 86	85	60-120	1	20
Batch number: 08036A08A TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	5269524-52 ug/l	69525 118	118	75-135	0	30
Batch number: D080372AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample n N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	umber(s): 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	5269524-52 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	69525 101 111 107 104 96 106 96 108 100 103 105		73-119 70-123 74-120 79-113 74-117 78-119 69-135 85-115 81-114 82-119 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 <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD <u>Max</u>
Batch number: 08036A08A	Sample	number(s		-5269	525 UNSE	K: P269385			
TPH-GRO - Waters	118		63-154						
Batch number: D080372AA	Sample	number(s	): 5269524	-5269	525 UNSE	K: P269498			
Methyl Tertiary Butyl Ether	110	107	69-127	3 .	30				
di-Isopropyl ether	123	120	68-129	2	30				
Ethyl t-butyl ether	117	111	78-119	5	30				
t-Amyl methyl ether	110	109	72-125	1	30				
t-Butyl alcohol	100	100	70-121	0	30				
Benzene	119	114	83-128	4	. 30				
1,2-Dichloroethane	107	104	70-143	3 .	30				
Toluene	120	114	83-127	6	30				
1,2-Dibromoethane	108	102	78-120	6	30				
Ethylbenzene	111	106	82-129	5	30				
Xylene (Total)	111	106	82-130	4	30				

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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



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Page 2 of 3

### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1075634

Reported: 02/13/08 at 12:11 PM

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

MSD

BKG

DUP

Dup RPD

MS %REC MS/MSD Limits .

RPD

Conc

DUP RPD

Analysis Name

%REC

RPD MAX

Conc

### 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-DRO (Water) w/Si Gel Batch number: 080350004A

Orthoterphenyl

5269524 5269525 92 91 1.08 LCSD 108

59-131 Limits:

Analysis Name: TPH Fuels by GC (Waters) Chlorobenzene

Batch number: 080350028A

Orthoterphenyl

52-131

5269524	625*	87
5269525	100	91
Blank	97	95
LCS	101	97
LCSD	100	96

28-152 Analysis Name: TPH-GRO - Waters

Batch number: 08036A08A

Trifluorotoluene-F

5269524	94
5269525	82
Blank	79
LCS	83
LCSD	85
MS	82

Limits:

Limits: 63-135

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch numb	er: D080372AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5269524	89	97	98	106
5269525	88	96	93	94
Blank	91	101	98 .	96

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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



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### Quality Control Summary

Group Number: 1075634 Client Name: ChevronTexaco Reported: 02/13/08 at 12:11 PM Surrogate Quality Control 98 100 97 98 LCS MS MSD 90 92 87 100 101 95 93 95 78-113 77-113 80-113 Limits: 80-116

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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

### Chevron California Region Analysis Request/Chain of Custody

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. 10/04/01

## Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D. TNTC IU umhos/cm C Cal meq g ug ml	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s) milliliter(s)	BMQL MPN CP Units NTU F Ib. kg mg I	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

### Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
. D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

#### **SAMPLE GROUP**

The sample group for this submittal is 1076134. Samples arrived at the laboratory on Wednesday, February 06, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description
CPT2-W-080204 Grab Water
SB8-W-080131 Grab Water

Lancaster Labs Number 5272376 5272377

I COPY TO CRA
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans Attn: I Hull



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

Respectfully Submitted,

Susan M. Goshert Group Leader

Duran M Goshaid



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Lancaster Laboratories Sample No. WW5272376

Group No. 1076134

CPT2-W-080204 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2

Collected: 02/04/2008 13:30

by IH

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 12:36

Discard: 03/20/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CPT2-

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	4,100.	50.	ug/l	1
	The reported concentration of TI gasoline constituents eluting prestart time.	PH-GRO does not cior to the C6	include MTBE or (n-hexane) TPH-G	other RO range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	10,000.	290.	ug/l	1
	Due to the nature of the sample	matrix, a red	uced aliquot was	used		
	for analysis. The reporting lim	mits were rais	ed accordingly.			
02500	TPH Fuels by GC (Waters)					
02501.	Total TPH	n.a.	1,500.	400.	ug/l	1
02508	TPH Motor Oil C16-C36  TPH quantitation is based on pea	n.a.	1,500.	400.	ug/l	1
	C8 (n-octane) through C40 (n-ter Due to the nature of the sample for analysis. The reporting lin The chlorobenzene surrogate data matrix problems evident in the	matrix, a red mits were rais a is outside t	uced aliquot was ed accordingly. he QC limits due	used		
06058	BTEX+5 Oxygenates+EDC+EDB					
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1.
02010	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/l	1
02011	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/1	1
02013	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/l	1
02015	t-Butyl alcohol	75-65-0	N.D.	2.	ug/l	1
05401	Benzene	71-43-2	14.	0.5	ug/l	1
	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	2.	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1
05415	Ethylbenzene	100-41-4	57.	0.5	ug/l	. 1
06310	Xylene (Total)	1330-20-7	110.	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.



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Lancaster Laboratories Sample No. WW5272376

Group No. 1076134

CPT2-W-080204 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2

Collected: 02/04/2008 13:30 by IH

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 12:36

Discard: 03/20/2008

CPT2-

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

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	· · · · · · · · · · · · · · · · · · ·		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
TPH-GRO - Waters	SW-846 8015B modified	1	02/11/2008 10:41	Patrick N Evans	1
TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	02/11/2008 20:11	Diane V Do	1 .
TPH Fuels by GC (Waters)	SW-846 8015B modified	. 1	02/11/2008 23:44	Matthew E Barton	1
BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/09/2008 03:18	Michael A Ziegler	1
GC VOA Water Prep	SW-846 5030B	1	02/11/2008 10:41	Patrick N Evans	1
GC/MS VOA Water Prep	SW-846 5030B	. 1	02/09/2008 03:18	Michael A Ziegler	1
Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	02/07/2008 15:30	Jason A Heisey	1
Extraction - DRO (Waters)	SW-846 3510C	1	02/09/2008 08:00	Olivia I Santiago	1
	TPH-GRO - Waters TPH-DRO (Water) w/Si Gel TPH Fuels by GC (Waters) BTEX+5 Oxygenates+EDC+EDB GC VOA Water Prep GC/MS VOA Water Prep Extraction - Fuel/TPH (Waters)	Analysis Name TPH-GRO - Waters TPH-DRO (Water) w/Si Gel TPH Fuels by GC (Waters) BTEX+5 Oxygenates+EDC+EDB GC VOA Water Prep GC/MS VOA Water Prep Extraction - Fuel/TPH SW-846 S015B modified SW-846 S015B modified SW-846 S030B SW-846 S030B SW-846 S030B SW-846 S030B SW-846 S030B	Analysis Name	Analysis Name         Method         Trial#         Date and Time           TPH-GRO - Waters         SW-846 8015B modified         1 02/11/2008 10:41           TPH-DRO (Water) w/Si Gel         SW-846 8015B modified         1 02/11/2008 20:11           TPH Fuels by GC (Waters)         SW-846 8015B modified         1 02/11/2008 23:44           BTEX+5 Oxygenates+EDC+EDB         SW-846 8260B 1 02/09/2008 03:18           GC VOA Water Prep         SW-846 5030B 1 02/11/2008 10:41           GC/MS VOA Water Prep         SW-846 5030B 1 02/09/2008 03:18           Extraction - Fuel/TPH SW-846 3510C 1 02/07/2008 15:30	Analysis Name Method Trial# Date and Time Analyst  TPH-GRO - Waters SW-846 8015B modified 1 02/11/2008 10:41 Patrick N Evans  TPH-DRO (Water) w/Si Gel SW-846 8015B 1 02/11/2008 20:11 Diane V Do  TPH Fuels by GC (Waters) SW-846 8015B modified 1 02/11/2008 23:44 Matthew E Barton  BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 02/09/2008 03:18 Michael A Ziegler  GC VOA Water Prep SW-846 5030B 1 02/11/2008 10:41 Patrick N Evans  GC/MS VOA Water Prep SW-846 5030B 1 02/09/2008 03:18 Michael A Ziegler  Extraction - Fuel/TPH SW-846 3510C 1 02/07/2008 15:30 Jason A Heisey  (Waters)



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Lancaster Laboratories Sample No. WW5272377

Group No. 1076134

SB8-W-080131 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected: 01/31/2008

by IH

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 12:36

Discard: 03/20/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SB8-W

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	18,000.	1,300.	ug/l	25
	The reported concentration of gasoline constituents eluting start time.					
02202	TPH-DRO (Water) w/Si Gel	n.a.	52,000.	7,300.	ug/l	25
	Due to the nature of the samp	le matrix, a red	duced aliquot was	s used		
	for analysis. The reporting	limits were rais	ed accordingly.			
06058	BTEX+5 Oxygenates+EDC+EDB					
			•			
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	1.	ug/l	2
02011	di-Isopropyl ether	108-20-3	N.D.	1.	ug/l	2
02013	Ethyl t-butyl ether	637-92-3	N.D.	1.	ug/l	2
02014	t-Amyl methyl ether	994-05-8	N.D.	1.	ug/l	2
02015	t-Butyl alcohol	75~65~0	N.D.	4.	ug/l	2
05401	Benzene	71-43-2	N.D.	1.	ug/l	2
05402	1,2-Dichloroethane	107-06-2	N.D.	1.	ug/l	2
05407	Toluene	108-88-3	N.D.	1.	ug/l	2
05412	1,2-Dibromoethane	106-93-4	N.D.	1.	ug/l	2
05415	Ethylbenzene	100-41-4	8.	1.	ug/l	2
06310	Xylene (Total)	1330-20-7	2.	1.	ug/l	2 .
	The reporting limits for the	GC/MS volatile	compounds were ra	aised due to		

The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

Preservation requirements were not met. 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 = 4.

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.



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Lancaster Laboratories Sample No. WW5272377

Group No. 1076134

SB8-W-080131 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected: 01/31/2008

hy TH

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 12:36

Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SB8-W

		1		G C C L y	CIII C.					
CAT				-		Analysis	ŀ		Dilution	
No.	Analysis Name	Method			Trial#	Date and T	lime	Analyst	Factor	
01728	TPH-GRO - Waters	SW-846	8015B	modified	1.	02/07/2008	17:43	Steven A Skiles	25	
02202	TPH-DRO (Water) w/Si Gel	SW-846	8015B		1	02/12/2008	11:51	Diane V Do	25	
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846	8260B		1	02/12/2008	07:23	Michael A Ziegler	2	
01146	GC VOA Water Prep	SW-846	5030B		1	02/07/2008	17:43	Steven A Skiles	1	
01163	GC/MS VOA Water Prep	SW-846	5030B		1	02/12/2008	07:23	Michael A Ziegler	2	
02376	Extraction - Fuel/TPH (Waters)	SW-846	3510C		1	02/07/2008	15:30	Jason A Heisey	1	



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### Quality Control Summary

Client Name: ChevronTexaco

Reported: 02/18/08 at 12:36 PM

Group Number: 1076134

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

### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 080380002A TPH-DRO (Water) w/Si Gel	Sample N.D.	number(s):	5272376-52 ug/l	72377 91	93	60-124	í	20
Batch number: 08038A08A TPH-GRO - Waters	Sample N.D.	number(s):	5272377 ug/l	81	77	75-135	5	30
Batch number: 080390019A Total TPH TPH Motor Oil C16-C36	Sample N.D. N.D.	number(s): 40. 40.	5272376 ug/l ug/l	84	81	60-120	3	20
Batch number: 08041A54A TPH-GRO - Waters	Sample N.D.	number(s):	5272376 ug/l	95	101	75-135	6	30
Batch number: D080394AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	number(s):     0.5     0.5     0.5     0.5     0.5     0.5     0.5     0.5     0.5     0.5     0.5	5272376 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	99 106 105 105 101 104 98 107 100 104 108		73-119 70-123 74-120 79-113 74-117 78-119 69-135 85-115 81-114 82-119 83-113		
Batch number: D080423AB Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	number(s): 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	5272377 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	95 107 106 100 98 102 90 102 89 102 102		73-119 70-123 74-120 79-113 74-117 78-119 69-135 85-115 81-114 82-119 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

rouna (BKG) =	the sample used in	conjunction with the o	upricace			
				and the second second		
	MS	MSD MS/MSD	RPD BKG	DUP	DUP	Dup RPD

#### \*- Outside of specification

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



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### Quality Control Summary

### Analysis Name    Sample number(s): 5272377   UNSPK: P272355	Client Name: ChevronTexaco Reported: 02/18/08 at 12:36 PM					Group Number: 1076134					
### Batch number: 08041A54A			%REC	Limits	RPD	MAX	Conc	Conc	RPD	<u>Max</u>	
Batch number: 08041A54A					UNSPK:	P2723	55				
## Batch number: D080394AA	TPH-GRO - Waters	118		. 63-154							
Batch number: D080394AA	Batch number: 08041A54A	Sample	number(s)	5272376	UNSPK:	P2712	91				
Methyl Tertiary Butyl Ether         106         102         69-127         4         30           di-Isopropyl ether         113         109         68-129         3         30           Ethyl t-butyl ether         108         105         78-119         2         30           t-Amyl methyl ether         103         103         72-125         0         30           t-Butyl alcohol         100         98         70-121         2         30           Benzene         114         111         83-128         2         30           1,2-Dichloroethane         101         99         70-143         2         30           Toluene         114         114         83-127         0         30           1,2-Dibromoethane         102         99         78-120         2         30           Ethylbenzene         109         107         82-129         2         30           Xylene (Total)         113         110         82-130         2         30           Batch number: D080423AB         Sample number(s): 5272377         UNSPK: P273179           Methyl Tertiary Butyl Ether         106         105         78-119         1         30	TPH-GRO - Waters	119		63-154							
Methyl Tertiary Butyl Ether         106         102         69-127         4         30           di-Isopropyl ether         113         109         68-129         3         30           Ethyl t-butyl ether         108         105         78-119         2         30           t-Amyl methyl ether         103         103         72-125         0         30           t-Butyl alcohol         100         98         70-121         2         30           Benzene         114         111         83-128         2         30           1,2-Dichloroethane         101         99         70-143         2         30           Toluene         114         114         83-127         0         30           1,2-Dibromoethane         102         99         78-120         2         30           Ethylbenzene         109         107         82-129         2         30           Xylene (Total)         113         110         82-130         2         30           Batch number: D080423AB         Sample number(s): 5272377         UNSPK: P273179           Methyl Tertiary Butyl Ether         106         105         78-119         1         30	Batch number: D080394AA	Sample	number(s)	: 5272376	UNSPK:	P2713	90				
di-Isopropyl ether       113       109       68-129       3       30         Ethyl t-butyl ether       108       105       78-119       2       30         t-Amyl methyl ether       103       103       72-125       0       30         t-Butyl alcohol       100       98       70-121       2       30         Benzene       114       111       83-128       2       30         1,2-Dichloroethane       101       99       70-143       2       30         Toluene       114       114       83-127       0       30         1,2-Dibromoethane       102       99       78-120       2       30         Ethylbenzene       109       107       82-129       2       30         Xylene (Total)       113       110       82-130       2       30         Batch number: D080423AB       Sample number(s): 5272377       UNSPK: P273179         Methyl Tertiary Butyl Ether       99       97       69-127       2       30         di-Isopropyl ether       106       105       78-119       1       30         Ethyl t-butyl ether       106       105       78-119       1       30										·	
Ethyl t-butyl ether 108 105 78-119 2 30 t-Amyl methyl ether 103 103 72-125 0 30 t-Butyl alcohol 100 98 70-121 2 30 Benzene 114 111 83-128 2 30 to-Dichloroethane 101 99 70-143 2 30 to-Dichloroethane 102 99 78-120 2 30 to-Dibromoethane 102 99 78-120 2 30 to-Dibromoethane 102 99 78-120 2 30 to-Dibromoethane 103 113 110 82-130 2 30 to-Dibromoethane 104 113 110 82-130 2 30 to-Dibromoethane 105 113 110 82-130 2 30 to-Dibromoethane 107 113 110 82-130 2 30 to-Dibromoethane 108 109 107 82-129 2 30 to-Dibromoethane 109 107 82-129 2 30 to-Dibromoethane 109 107 82-129 2 30 to-Dibromoethane 109 109 109 109 109 109 109 109 109 109		113	109	68-129	3	30					
t-Amyl methyl ether 103 103 72-125 0 30 t-Butyl alcohol 100 98 70-121 2 30 Benzene 114 111 83-128 2 30 1,2-Dichloroethane 101 99 70-143 2 30 Toluene 114 114 83-127 0 30 1,2-Dibromoethane 102 99 78-120 2 30 Ethylbenzene 109 107 82-129 2 30 Xylene (Total) 113 110 82-130 2 30  Batch number: D080423AB Sample number(s): 5272377 UNSPK: P273179 Methyl Tertiary Butyl Ether 99 97 69-127 2 30 di-Isopropyl ether 108 107 68-129 1 30 Ethyl t-butyl ether 106 105 78-119 1 30 t-Amyl methyl ether 100 99 72-125 1 30 t-Butyl alcohol 96 98 70-121 2 30 Benzene 104 105 83-128 1 30 1,2-Dichloroethane 97 96 70-143 1 30		108	105		2	30		***			
t-Butyl alcohol  Benzene  114 111 83-128 2 30  1,2-Dichloroethane 101 99 70-143 2 30  Toluene 114 114 83-127 0 30  1,2-Dibromoethane 102 99 78-120 2 30  Ethylbenzene 109 107 82-129 2 30  Xylene (Total)  Batch number: D080423AB  Methyl Tertiary Butyl Ether 4i-Isopropyl ether 4i-Isopropyl ether 4i08 107 68-129 1 30  Ethyl t-butyl ether 106 105 78-119 1 30  t-Amyl methyl ether 100 99 72-125 1 30  t-Butyl alcohol 8enzene 104 105 83-128 1 30  1,2-Dichloroethane 97 96 70-143 1 30		103	1.03	72-125	0	30					
Benzene 1.14 1.11 83-128 2 30 1,2-Dichloroethane 101 99 70-143 2 30 Toluene 114 1.14 83-127 0 30 1,2-Dibromoethane 102 99 78-120 2 30 Ethylbenzene 109 107 82-129 2 30 Xylene (Total) 113 110 82-130 2 30  Batch number: D080423AB Sample number(s): 5272377 UNSPK: P273179 Methyl Tertiary Butyl Ether 99 97 69-127 2 30 Mi-Isopropyl ether 108 107 68-129 1 30 Ethyl t-butyl ether 106 105 78-119 1 30 Ethyl t-butyl ether 100 99 72-125 1 30 t-Butyl alcohol 96 98 70-121 2 30 Benzene 104 105 83-128 1 30 1,2-Dichloroethane 97 96 70-143 1 30			. 98	70-121	2	3.0					
1,2-Dichloroethane				83-128	2	30					
Toluene 114 114 83-127 0 30   1,2-Dibromoethane 102 99 78-120 2 30   Ethylbenzene 109 107 82-129 2 30   Xylene (Total) 113 110 82-130 2 30    Batch number: D080423AB Sample number(s): 5272377 UNSPK: P273179   Methyl Tertiary Butyl Ether 99 97 69-127 2 30   di-Isopropyl ether 108 107 68-129 1 30   Ethyl t-butyl ether 106 105 78-119 1 30   t-Amyl methyl ether 100 99 72-125 1 30   t-Butyl alcohol 96 98 70-121 2 30   Benzene 104 105 83-128 1 30   1,2-Dichloroethane 97 96 70-143 1 30		101	99	70-143	2	30					
1,2-Dibromoethane 102 99 78-120 2 30 Ethylbenzene 109 107 82-129 2 30 Xylene (Total) 113 110 82-130 2 30   Batch number: D080423AB Sample number(s): 5272377 UNSPK: P273179 Methyl Tertiary Butyl Ether 99 97 69-127 2 30  di-Isopropyl ether 108 107 68-129 1 30  Ethyl t-butyl ether 106 105 78-119 1 30  t-Amyl methyl ether 100 99 72-125 1 30  t-Butyl alcohol 96 98 70-121 2 30  Benzene 104 105 83-128 1 30  1,2-Dichloroethane 97 96 70-143 1 30		114	114	83-127	0	30					
Ethylbenzene Xylene (Total)  Batch number: D080423AB Methyl Tertiary Butyl Ether Methyl Tertiary Butyl Ether Methyl t-butyl ether Methyl t-butyl ether Methyl tether Methy		102	99	78-120	2	30					
Xylene (Total)       113       110       82-130       2       30         Batch number: D080423AB       Sample number(s): 5272377 UNSPK: P273179         Methyl Tertiary Butyl Ether       99       97       69-127       2       30         di-Isopropyl ether       108       107       68-129       1       30         Ethyl t-butyl ether       106       105       78-119       1       30         t-Amyl methyl ether       100       99       72-125       1       30         t-Butyl alcohol       96       98       70-121       2       30         Benzene       104       105       83-128       1       30         1,2-Dichloroethane       97       96       70-143       1       30		109	107	82-129	2	30					
Methyl Tertiary Butyl Ether       99       97       69-127       2       30         di-Isopropyl ether       108       107       68-129       1       30         Ethyl t-butyl ether       106       105       78-119       1       30         t-Amyl methyl ether       100       99       72-125       1       30         t-Butyl alcohol       96       98       70-121       2       30         Benzene       104       105       83-128       1       30         1,2-Dichloroethane       97       96       70-143       1       30		113	110	82-130	2	30					
Methyl Tertiary Butyl Ether       99       97       69-127       2       30         di-Isopropyl ether       108       107       68-129       1       30         Ethyl t-butyl ether       106       105       78-119       1       30         t-Amyl methyl ether       100       99       72-125       1       30         t-Butyl alcohol       96       98       70-121       2       30         Benzene       104       105       83-128       1       30         1,2-Dichloroethane       97       96       70-143       1       30	Patah number: D090422AP	Sample	number(s)	. 5979377	UNSPK	P2731	79				
di-Isopropyl ether 108 107 68-129 1 30 Ethyl t-butyl ether 106 105 78-119 1 30 t-Amyl methyl ether 100 99 72-125 1 30 t-Butyl alcohol 96 98 70-121 2 30 Benzene 104 105 83-128 1 30 1,2-Dichloroethane 97 96 70-143 1 30				69-127	2	30					
Ethyl t-butyl ether 106 105 78-119 1 30 t-Amyl methyl ether 100 99 72-125 1 30 t-Butyl alcohol 96 98 70-121 2 30 Benzene 104 105 83-128 1 30 1,2-Dichloroethane 97 96 70-143 1 30											
t-Amyl methyl ether 100 99 72-125 1 30 t-Butyl alcohol 96 98 70-121 2 30 Benzene 104 105 83-128 1 30 1,2-Dichloroethane 97 96 70-143 1 30											
t-Butyl alcohol 96 98 70-121 2 30  Benzene 104 105 83-128 1 30  1,2-Dichloroethane 97 96 70-143 1 30											
Benzene 104 105 83-128 1 30 1,2-Dichloroethane 97 96 70-143 1 30											
1,2-Dichloroethane 97 96 70-143 1 30											
1/2 Didniorocciane					1	30		-			
	Toluene	105	104	83-127	1	30					
1,2-Dibromoethane 87 85 78-120 2 30					_						
1/2-Dibinicetaile 103 104 82-129 1 30 Ethylbenzene 103 104 82-129 1 30											
Exhippenents: 104 103 82-130 1 30 1 30					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-DRO (Water) w/Si Gel Batch number: 080380002A Orthoterphenyl

5272376	. 95
5272377	.80
Blank	100
LCS	109
LCSD	110

Limits: 59-131

Analysis Name: TPH-GRO - Waters Batch number: 08038A08A Trifluorotoluene-F

5272377 92 Blank 80

\*- Outside of specification

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



78-113

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### Quality Control Summary

Group Number: 1076134 Client Name: ChevronTexaco Reported: 02/18/08 at 12:36 PM Surrogate Quality Control LCS 88 LCSD 84 MS. 80 Limits: 63-135 Analysis Name: TPH Fuels by GC (Waters) Batch number: 080390019A Chlorobenzene Orthoterphenyl 5272376 192 8.0 Blank 81 92 102 LCS 91 LCSD 88 96 52-131 Limits: 28-152 Analysis Name: TPH-GRO - Waters Batch number: 08041A54A Trifluorotoluene-F 5272376 Blank 77 LCS 8,6 LCSD 87 MS 84 Limits: 63-135 Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: D080394AA 4-Bromofluorobenzene Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 108 100 98 5272376 91 90 93 93 Blank 88 102 97 99 LCS 93 97 97 91 MS 97 93 95 91 MSD 80-113 78-113 80-116 77-113 Limits: Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: D080423AB 4-Bromofluorobenzene 1,2-Dichloroethane-d4 Toluene-d8 Dibromofluoromethane 103 84 5272377 87 92 98 90 Blank 90 90 91 100 88 LCS 87 86 89 98 MS 86 96 MSD 87

80-113

#### \*- Outside of specification

80-116

Limits:

(1) The result for one or both determinations was less than five times the LOQ.

77-113

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

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only Acct. # 10880 Sample #: 5272376-77 242890

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Facility #: 30 - 7233	(A)	12)	<del></del>					Τ						F	Pres	ervat	ion C	ode	S				tive Cod	
Site Address: 2259	FIY	<u> 257 5</u>	'										TPH 8015 MOD DRO 🕱 Silica Gel Cleanup		.;		_					H = HCI N = HNO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub>	T = Thios B = NaO O = Other	Н
Chevron PM: I. R				onsult	lant: CR	A			1	ers			Ö		Session							☐ J value repor	ing neede	1
Consultant/Office: Er	very r	MLE, C	A			· · ·				tain	8260 🕅 8021□		lica G									☐ Must meet lo		
Consultant Prj. Mgr.: _			<u> </u>	-		·				S	æ ⊠		S S		LEAD					] '		possible for 8		ounas
Consultant Phone #:	510-4	120-331	+4	Fax #	t: 510 - 14	120-91	70			o to	256	GRO	080		٦	7421						8021 MTBE Co		260
Sampler: 1. HULL		<u> </u>	<u> </u>						je je	E P		Ş	9	æ	enate							Confirm all hi	•	200
Service Order #:	<u> </u>	·	No	n SAR	<u>:</u>	<u></u>		] _	sodi	Z	#	015	1015	os III	Oxygenates	7420						Runox		est hit
Field	Moteix	Repeat	Top	Vaar	Month Day	Time Collected	New Field Pt	Grab Grab	Composite	Total Number of Containers	BTEX + LATORS	TPH 8015 MOD	E	8260 full scan	11	Lead 7420			-			☐Run ox	's on all h	ts
Point Name  CPT 2	W	Sample	Depui		02 64		I REIO I I.	×			_	.X			×							Comments /		
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### Chevron California Region Analysis Request/Chain of Custody

413	Lancaster Where quality is a	Laborato	ries
V	Where quality is a	science.	

For Lancaster Laboratories use only
Acct. #: 10880 \_\_ Sample #: 5273376-77

241886 SCR#: 1076134

3460 Rev. 10/04/01

Analyses Requested 020408-21 Preservation Codes Preservative Codes Facility #: 30 - 7233 (AIL) H = HCI T = Thiosulfate Site Address: 2259 FIRST ST., LIVERMORE, CA N = HNO<sub>3</sub> B = NaOH TPH 8015 MOD DRO DX Silica Gel Cleanup  $S = H_2SO_4$  O = OtherChevron PM: I. ROBB Lead Consultant: CRA Total Number of Containers ☐ J value reporting needed Consultant/Office: EM FRYVILLE, CA Must meet lowest detection limits possible for 8260 compounds Consultant Prj. Mgr.: C. EVANS Oxygenates LEAO Consultant Phone #: 510-420-3344 Fax #: 510-420-9170 8021 MTBE Confirmation ☐ Confirm highest hit by 8260 Sampler: 1 1 .ead 7420 [ Confirm all hits by 8260 ☐ Non SAR: Service Order #: Run \_\_\_\_ oxy's on highest hit Time Repeat Top Run \_\_\_\_ oxy's on all hits Field Sample Depth Year Month Day Collected Field Pt. Matrix Point Name Comments / Remarks 08 01 31 W SB8 DLEASE E-MAIL RESULTS TO: certains > @ croworld. com EDF DATA TO: dohare racraworld. com Date 21468 Time 1535 Turnaround Time Requested (TAT) (please circle) Date Received by: 48 hour STD. TAT 72 hour 408 1600 4 day 5 day 24 hour Received by Relinquished by: Data Package Options (please circle if required) Date Time QC Summary Type I - Full Received by Relinquished by Commercial Carrier. 26/2 100 Coelt Deliverable not needed Type VI (Raw Data) Other Alle FedEx WIP (RWQCB) Temperature Upon Receipt 1:0-4-2 C° Custody Seals Intag Disk

# 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)
meg	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	į <b>1</b> .	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

- 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:

X.Y.Z

#### **Organic Qualifiers**

Defined in case narrative

A B C D E J N P	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument Estimated value Presumptive evidence of a compound (TICs only) Concentration difference between primary and confirmation columns >25%	BEMNS UW*+	Value is <crdl, (msa)="" <0.995<="" additions="" amount="" analysis="" but="" calculation="" coefficient="" compound="" control="" correlation="" detected="" digestion="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" msa="" not="" of="" out="" post="" precision="" spike="" standard="" th="" to="" used="" was="" within="" ≥idl=""></crdl,>
U	Compound was not detected		

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

#### **SAMPLE GROUP**

The sample group for this submittal is 1076137. Samples arrived at the laboratory on Wednesday, February 06, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description	Lancaster Labs Number
SSB10-S-1.5-080131 Grab Soil	5272407
SSB1-S-1.5-080201 Grab Soil	5272408
SSB1-S-2.5-080201 Grab Soil	5272409
SSB1-S-4.5-080201 Grab Soil	5272410
SSB2-S-1.5-080201 Grab Soil	5272411
SSB2-S-2.5-080201 Grab Soil	5272412
SSB8-S-1.5-080201 Grab Soil	5272413
SSB2-S-4.5-080201 Grab Soil	5272414
SSB8-S-4.5-080201 Grab Soil	5272415
SSB2-S-8-080201 Grab Soil	5272416
SSB3-S-1.5-080130 Grab Soil	5272417
SSB4-S-1.5-080201 Grab Soil	5272418
SSB4-S-2.5-080201 Grab Soil	5272419
SSB8-S-9.5-080201 Grab Soil	5272420
SSB4-S-4.5-080201 Grab Soil	5272421
SSB4-S-9-080201 Grab Soil	5272422

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: I Hull



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

Respectfully Submitted,

Susan M. Goshert Group Leader

Duran M Goshert



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Lancaster Laboratories Sample No. SW5272407

Group No. 1076137

SSB10-S-1.5-080131 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB10

Collected: 01/31/2008 13:00

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:31

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

As Received CAS Number Analysis Name

Result

Method Detection Limit

Dilution Units

Factor

06955 Lead

38.9

0.471

mg/kg

CAT

No.

7439-92-1

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

Dilution . Analysis CAT Factor Trial# Date and Time Analyst Method No. Analysis Name 02/08/2008 07:21 SW-846 6010B 1 Joanne M Gates 1 06955 Lead 02/07/2008 19:40 Annamaria Stipkovits SW-846 3050B SW SW846 ICP Digest 05708



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Lancaster Laboratories Sample No. SW5272408

Group No. 1076137

SSB1-S-1.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB1

Collected: 02/01/2008 11:10

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:31

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received CAT

As Received

Method

Dilution

No. Analysis Name CAS Number Result

Detection Limit

Units Factor

06955 Lead 7439-92-1

9.52

0.471

mg/kg

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.

CAT			-	Analysis	. •	Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/08/2008 07:25	Joanne M Gates	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5272409

Group No. 1076137

SSB1-S-2.5-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB1 Collected:02/01/2008 11:22 by IH

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

As Received

CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit mg/kg 06955 Lead 7439-92-1 0.480

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.

CAT			Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
06955	Lead	SW-846 6010B	1	02/08/2008 07:28	Joanne M Gates	1		
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1		



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Lancaster Laboratories Sample No. SW5272410

Group No. 1076137

SSB1-S-4.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB1

Collected: 02/01/2008 12:05 by I

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

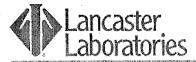
San Ramon CA 94583

As Received As Received Method Dilution CAT CAS Number Result Detection Units Factor Analysis Name No. Limit mg/kg 7.34 0.480 7439-92-1 06955 Lead

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.

		Паротас	-x	CIII	.11010		
CAT					Analysis		Dilution
No.	Analysis Name	Method		Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B		1	02/08/2008 07:32	Joanne M Gates	1
05708	SW SW846 ICP Digest	SW-846 3050B		1	02/07/2008 19:40	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5272411

Group No. 1076137

SSB2-S-1.5-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB2

Collected: 02/01/2008 12:25

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Dilution As Received Method CAT Detection Units Factor Result Analysis Name CAS Number No. 7439-92-1 mg/kg 06955 Lead

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.

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/08/2008 07:35	Joanne M Gates	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5272412

Group No. 1076137

SSB2-S-2.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB2

Collected: 02/01/2008 12:40

Account Number: 10880

Submitted: 02/06/2008 10:10

Reported: 02/13/2008 at 10:32

6001 Bollinger Canyon Rd L4310

ChevronTexaco

Discard: 03/15/2008

San Ramon CA 94583

#### SSB2B

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	1.2	1.0	mg/kg	25
	The reported concentration of T gasoline constituents eluting p start time.					
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	11.	4.0	mg/kg	1
06955	Lead	7439-92-1	40.6	0.476	mg/kg	1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.03
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.03
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.03
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.03
02020	t-Butyl alcohol	75-65-0	N.D.	0.021	mg/kg	1.03
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.03
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.03
0.5466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.03
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.03
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.03
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.03

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		_		Analysis	· · · · · · · · · · · · · · · · · · ·	Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
01725	TPH-GRO - Soils	SW-846 8015B modifie	<b>d</b> 1	02/07/2008 21:02	Linda C Pape	25	
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 14:36	Diane V Do	1	
06955	Lead	SW-846 6010B	1	02/08/2008 07:39	Joanne M Gates	1	
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 18:10	Nicholas R Rossi	1.03	
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:13	Eric L Vera	n.a.	
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:11	Eric L Vera	n.a.	
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 19:10	Eric L Vera	n.a.	
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1	
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A a	1	02/06/2008 19:12	Eric L Vera	n.a.	



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Lancaster Laboratories Sample No. SW5272412

Group No. 1076137

SSB2-S-2.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB2

Collected: 02/01/2008 12:40 by IH

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

SSB2B

07004 Extraction - DRO (Soils) SW-846 3550B

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

02/07/2008 14:35 Doreen K Robles

1



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Lancaster Laboratories Sample No. SW5272413

Group No. 1076137

SSB8-S-1.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB8 by IH

Collected: 02/01/2008 13:05

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Dilution As Received Method CAT Detection Units Factor CAS Number Result Analysis Name No. Limit mg/kg 0.471 7439-92-1 06955 Lead

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.

CAT		Analysis				
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/08/2008 07:43	Joanne M Gates .	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No.

Group No. 1076137

SSB2-S-4.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB2

Collected: 02/01/2008 13:30

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### SSB2C

	en en en en en en en en en en en en en e		*	As Received						
CAT			As Received	Method		Dilution				
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor				
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25				
	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.									
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	4.4.	4.0	mg/kg	1				
06955	Lead	7439-92-1	15.0	0.476	mg/kg	1				
	•									
07361	BTEX+5 Oxygenates+EDC+EDB									
		•								
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.04				
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.04				
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.04				
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.04				
02020	t-Butyl alcohol	75-65-0	N.D.	0.021	mg/kg	1.04				
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.04				
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.04				
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.04				
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.04				
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.04				
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.04				
	- 1 <del>-</del> -									

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#	Date and T	lime	Analyst	<b>Factor</b>
01725	TPH-GRO - Soils	SW-846 8015B	modified	1	02/08/2008	00:59	Linda C Pape	25
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B		1	02/08/2008		Diane V Do	1
06955	Lead	SW-846 6010B		1	02/08/2008	07:46	Joanne M Gates	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B		1	02/11/2008	18:34	Nicholas R Rossi	1.04
00374	GC/MS - Bulk Sample Prep	SW-846 5030A		. 1	02/06/2008	19:16	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A		2	02/06/2008	19:18	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A		1	02/06/2008	19:15	Eric L Vera	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B		1	02/07/2008	19:40	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A		1	02/06/2008	19:17	Eric L Vera	n.a.



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Lancaster Laboratories Sample No. SW5272414

Group No. 1076137

SSB2-S-4.5-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB2 Collected:02/01/2008 13:30 by IH

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32 ChevronTexaco 6001 Bollinger Canyon Rd L4310

Discard: 03/15/2008

San Ramon CA 94583

02/07/2008 14:35 Doreen K Robles

1

SSB2C 07004 Extraction - DRO (Soils)

SW-846 3550B



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Lancaster Laboratories Sample No. SW5272415

Group No. 1076137

SSB8-S-4.5-080201 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB8

Collected: 02/01/2008 13:32

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Lead

CAT

No.

06955

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

As Received Result Analysis Name

CAS Number

7439-92-1 160. Method Detection

Units

Dilution Factor

Limit mq/kg 0.485

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

Dilution Analysis CAT Factor Trial# Date and Time Analyst Method No. Analysis Name 02/08/2008 07:50 Joanne M Gates 1 SW-846 6010B 1 06955 Lead 02/07/2008 19:40 Annamaria Stipkovits SW SW846 ICP Digest SW-846 3050B 1 05708



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Page 1 of 2

Lancaster Laboratories Sample No. SW5272416

Group No. 1076137

SSB2-S-8-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB2

Collected: 02/01/2008 13:45 by IH

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

SSB2D

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the C6	ot include MTBE of (n-hexane) TPH-0	r other GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	7.45	0.485	mg/kg	1
07361	BTEX+5 Oxygenates+EDC+EDB		,			
					6	
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.97
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.97
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.97
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.97
02020	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.97
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.97
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.97
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.97
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.97
	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.97
05474 06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.97

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 Dilution Analysis CAT Analyst Factor Trial# Date and Time Analysis Name No. 02/08/2008 01:38 25 Linda C Pape SW-846 8015B modified 1 TPH-GRO - Soils 01725 Diane V Do 02/08/2008 14:16 1. TPH-DRO by 8015B w/Silica SW-846 8015B 02222 Gel 02/08/2008 08:00 Joanne M Gates SW-846 6010B 06955 Lead 0.97 02/11/2008 18:57 Nicholas R Rossi BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 . 07361 Eric L Vera n.a. 02/06/2008 19:23 GC/MS - Bulk Sample Prep SW-846 5030A 1 00374 Eric L Vera n.a. 02/06/2008 19:20 SW-846 5030A GC/MS - Bulk Sample Prep 00374 02/06/2008 19:24 Eric L Vera n.a. SW-846 5030A 01150 GC - Bulk Soil Prep Annamaria Stipkovits 02/07/2008 19:40 1 1 SW SW846 ICP Digest SW-846 3050B 05708 Eric L Vera SW-846 5030A 02/06/2008 19:25 n.a. GC/MS HL Bulk Sample Prep 06646



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Lancaster Laboratories Sample No. SW5272416

Group No. 1076137

SSB2-S-8-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB2 Collected: 02/01/2008 13:45

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

ChevronTexaco 6001 Bollinger Canyon Rd L4310

Discard: 03/15/2008

San Ramon CA 94583

SSB2D 07004

Extraction - DRO (Soils)

SW-846 3550B

1 02/07/2008 14:35 Doreen K Robles



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Lancaster Laboratories Sample No. SW5272417

Group No. 1076137

SSB3-S-1.5-080130 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB3

Collected:01/30/2008 14:40 by IH

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Dilution As Received Method CAT Factor Units Detection CAS Number Result No. Analysis Name Limit mg/kg 0.480 42.8 7439-92-1 06955 Lead

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

Dilution Analysis CAT Factor Trial# Date and Time Analyst Method No. Analysis Name Joanne M Gates 1 SW-846 6010B 1 02/08/2008 08:04 06955 Lead 02/07/2008 19:40 Annamaria Stipkovits SW SW846 ICP Digest SW-846 3050B 1 05708



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Lancaster Laboratories Sample No. SW5272418

Group No. 1076137

SSB4-S-1.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB4 Collected:02/01/2008 14:10 by IH

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Dilution Method As Received CAT Detection Units Factor Result CAS Number Analysis Name No. Limit 0.471 mg/kg 10.2 7439-92-1 06955 Lead

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 Dilution Analysis CAT Date and Time Analyst Factor Trial# Method Analysis Name No. 02/08/2008 08:08 Joanne M Gates SW-846 6010B 1 06955 Lead Annamaria Stipkovits SW-846 3050B 02/07/2008 19:40 05708 SW SW846 ICP Digest



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Dilution

SW5272419 Lancaster Laboratories Sample No.

Group No. 1076137

SSB4-S-2.5-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB4 Collected: 02/01/2008 14:18

Account Number: 10880

Submitted: 02/06/2008 10:10

Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received As Received Method

CAT Units Factor Result Detection CAS Number No. Analysis Name Limit

mg/kg 0.490 7439-92-1 517. 06955 Lead

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

Dilution Analysis CAT Factor Analyst Trial# Date and Time Method No. Analysis Name SW-846 6010B 1 02/08/2008 08:11 Joanne M Gates 1 06955 Lead Annamaria Stipkovits 02/07/2008 19:40 SW SW846 ICP Digest SW-846 3050B 1 05708



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Lancaster Laboratories Sample No. SW5272420

Group No. 1076137

SSB8-S-9.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB8 Collected:02/01/2008 14:20

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT

Analysis Name

CAS Number

As Received Result

Method Detection Dilution

No.

Limit

Units

Factor

06955

Lead

7439-92-1

33.8

0.480

mq/kq

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 06955 Lead 05708

SW SW846 ICP Digest

Method SW-846 6010B SW-846 3050B

Analysis Trial# Date and Time 02/08/2008 08:15 02/07/2008 19:40

Analyst Joanne M Gates Annamaria Stipkovits

Dilution

Factor



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SW5272421 Lancaster Laboratories Sample No.

Group No. 1076137

SSB4-S-4.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB4 Collected:02/01/2008 14:27

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Lead

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Dilution As Received Method CAT Units Factor Detection CAS Number Result Analysis Name No. Limit mg/kg 0.476 7439-92-1 616. 06955

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

Dilution Analysis CAT Factor Trial# Date and Time Analyst Method No. Analysis Name Joanne M Gates 02/08/2008 08:18 SW-846 6010B 1 06955 02/07/2008 19:40 Annamaria Stipkovits SW-846 3050B 1 05708 SW SW846 ICP Digest



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Lancaster Laboratories Sample No. SW5272422

Group No. 1076137

SSB4-S-9-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB4 Collected:02/01/2008 14:55

Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT

Analysis Name

As Received CAS Number

Result

Detection

Dilution

No.

90.8

Limit

Units

Factor

06955

7439-92-1

0.476

ma/ka

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 06955 Lead 05708 SW SW846 ICP Digest

Method SW-846 6010B SW-846 3050B

Analysis Date and Time 02/08/2008 10:40 1 02/07/2008 20:10

Analyst Joanne M Gates Annamaria Stipkovits

Dilution

Factor



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076137

Reported: 02/13/08 at 10:32 AM

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 <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max	
Batch number: 080380006A TPH-DRO by 8015B w/Silica Gel	Sample N.D.	number(s):	5272412,5 mg/kg	272414,52 96	272416 94	71-109	2	20	
Batch number: 080385708001 Lead	Sample N.D.	number(s): 0.490	5272407-5 mg/kg	272421 93		90-110			
Batch number: 080385708002 Lead	Sample N.D.	number(s): 0.490	5272422 mg/kg	96		90-110			
Batch number: 08038A02A TPH-GRO - Soils	Sample N.D.	number(s):	5272412,5 mg/kg	93 93	272416	67-119			
Batch number: B080421AB		number(s):			272416	72-117	1	30	
Methyl Tertiary Butyl Ether	N.D.	0.0005		104 97	105 101	72-117	4	30	
di-Isopropyl ether	N.D.	0.001 0.001	mg/kg mg/kg	100	101	67-124	. 2	30	
Ethyl t-butyl ether	N.D. N.D.	0.001	mg/kg	101	105	73-116	4	30	
t-Amyl methyl ether	N.D.	0.001	mg/kg	100	100	66-146	ō ·	30	
t-Butyl alcohol Benzene	N.D.	0.0005		99	102	84-115	3	30	
1.2-Dichloroethane	N.D.	0.001	mg/kg	106	108	76-135	2	30	
Toluene	N.D.	0.001	mg/kg	98	102	81-116	4	30	
1,2-Dibromoethane	N.D.	0.001	mq/kq	104	. 104	77-114	. 0	30	
Ethylbenzene	N.D.	0.001	mg/kg	95	97	82-115	1	30	
Xylene (Total)	N.D.	0.001	mg/kg	98	98	82-117	0	30	
•									

#### 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 MSD %REC %REC	MS/MSD Limits RP	RPD BKG D MAX Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 080385708001 Lead		r(s): 5272407-527 75-125 6	72421 UNSPK: P26781. 20 21.9	2 BKG: P26781 28.0	24*	20
Batch number: 080385708002 Lead	Sample numbe 94 100	r(s): 5272422 UNS 75-125 4	SPK: P272254 BKG: P 20 8.93	272254 9.69	8	20
Batch number: 08038A02A TPH-GRO - Soils	Sample numbe	r(s): 5272412,52 39-118 8	72414,5272416 UNSPK 30	: P266499		
Batch number: B080421AB Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether	Sample numbe 100 100 97	r(s): 5272412,52 59-119 58-113 60-112	72414,5272416 UNSPK	: P275147		

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076137

Reported: 02/13/08 at 10:32 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 <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD <u>Max</u>
t-Amyl methyl ether	98		63-112						
t-Butyl alcohol	127		50-143						
Benzene	94		66-112					•	
1,2-Dichloroethane	116 .		62-130						
Toluene	94		58-116			-		,	
1.2-Dibromoethane	97		66-108						
Ethylbenzene	90		54-116						
Xylene (Total)	94		52-117						

#### 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-DRO by 8015B w/Silica Gel

Batch number: 080380006A Orthoterphenyl

5272412	98	-	 	 _	· .		•	
5272414	100							
5272416	104							
Blank	102							
LCS	115							
LCSD	111							
	* .			 	 	 		
Limits:	59-129		 -	 				

DIMICS. 35 125

Analysis Name: TPH-GRO - Soils

Batch number: 08038A02A Trifluorotoluene-F

5272412 88 5272414 84

5272414 84 5272416 94 Blank 91 LCS 101 MS 83 MSD 87

Limits: 61-122

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch numb	er: B080421AB Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5272412	102	100	98	83
5272414	102	100	96	82
5272416	103	99	98	81
Blank	101	105	94	84
LCS	97	99	100	92

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



91 96

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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076137

Reported: 02/13/08 at 10:32 AM

Surrogate Quality Control

LCSD 98 103 99 MS 102 93 102

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

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

# Caster Laboratories 241885

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Site Address: 2259 FIRST ST. LIVERA							TPH 8015 MOD DRO ( Silica Gel Cleanup		 ∻∧					N = HNO <sub>3</sub> B	= Thiosu = NaOH = Other	
Chevron PM: T. COBB Lead Consultant: CR	<u> </u>		- 1	Containers	$_{\neg}$		ᇹ	Į	SCAVS		l			☐ J value reporting	needed	
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## Lancaster Laboratories Explanation of Symbols and Abbreviations

**BMQL** 

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

TNTC IU umhos/cm C Cal meq g ug	Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s) milliliter(s)	MPN CP Units NTU F Ib. kg mg I ul fib >5 um/ml	Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s) fibers greater than 5 microns in length per ml
m3 < > > ppm	be reliably determined using this s greater than	the sign is the <u>limit of</u> pecific test.	quantitation, the smallest amount of analyte which can m per kilogram (mg/kg), or one gram per million grams.

ppb parts per billion

gas per liter of gas.

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.

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

U.S. EPA data qualifiers:

N.D.

none detected

#### **Organic Qualifiers**

### Inorganic Qualifiers

Below Minimum Quantitation Level

	the state of the s			
Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""><th></th></crdl,>	
В	Analyte was also detected in the blank	E	Estimated due to interference	
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met	
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits	
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used	
	the instrument		for calculation	
J	Estimated value	U	Compound was not detected	
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits	
P	Concentration difference between primary and	*	Duplicate analysis not within control limits	
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995	
U	Compound was not detected			
X,Y,Z	Defined in case narrative			

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

#### SAMPLE GROUP

The sample group for this submittal is 1076104. Samples arrived at the laboratory on Wednesday, February 06, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description	<u>Lancaster Labs Number</u>
VP3-S-4.5-080201 Grab Soil	5272245
VP1-S-4.5-080201 Grab Soil	5272246
VP1-S-8-080201 Grab Soil	5272247
VP3-S-8-080201 Grab Soil	5272248
VP2-S-4.5-080201 Grab Soil	5272249
VP2-S-9.5-080201 Grab Soil	5272250
SB8-S-19.5-080131 Grab Soil	5272251
SB8-S-29.5-080131 Grab Soil	5272252
SB8-S-34.5-080131 Grab Soil	5272253
SB8-S-39,5-080131 Grab Soil	5272254
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Attn: I Hull

Attn: Charlotte Evans



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

Respectfully Submitted,

Christine Dulaney Senior Specialist



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Page 1 of 2

Lancaster Laboratories Sample No. SW5272245

Group No. 1076104

VP3-S-4.5-080201 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP3

Collected: 02/01/2008 09:35

Account Number: 10880

Submitted: 02/06/2008 10:10

Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

LIV34

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	1.0	1.0	mg/kg	25
	The reported concentration of TF gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-G	RO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	6.12	0.480	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
07361	TPH quantitation is based on peathat of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	mix calibrati	on in a range the	at includes		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.95
02016	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.95
02017	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.95
02018	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.95
02019	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.95
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.95
	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.95
05461	Toluene	108-88-3	N.D.	0.001	mg/kg	0.95
05466	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.95
05471	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.95
05474 06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.95
00301	My Lond ( + O con )					

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

Analysis Name No. 01725 TPH-GRO - Soils

CAT

SW-846 8015B modified 1 02/07/2008 16:55

Analysis Trial# Date and Time

Analyst Linda C Pape Dilution Factor 25



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Page 2 of 2

Lancaster Laboratories Sample No. SW5272245

Group No. 1076104

VP3-S-4.5-080201 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP3

Collected:02/01/2008 09:35

by IH

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

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ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

LIV34 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	2	02/14/2008 10:31	Diane V Do	1
06955	Gel Lead	SW-846 6010B	1	02/08/2008 10:49	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1.	02/19/2008 20:26	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/12/2008 02:40	Kathrine K Muramatsu	0.95
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 18:15	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 18:17	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 18:20	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 20:10	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 18:19	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	3	02/13/2008 13:00	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3550B	4	02/13/2008 13:00	Olivia Arosemena	1



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Page 1 of 2

Lancaster Laboratories Sample No. SW5272246

Group No. 1076104

VP1-S-4.5-080201 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP1

Collected: 02/01/2008 09:40

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### LIV14

CAT

No.

01725

TPH-GRO - Soils

CAT	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
0.11.11.0	The reported concentration of TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-G	other RO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	6.10	0.476	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02510	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on peathat of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	mix callbrati	on in a range una	C INCIDUES		
07361	BLEX+2 Oxydenates+FDC+FDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.98
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.98
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.98
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.98
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.98
05460	Benzene	71-43-2	N.D.	0,0005	mg/kg	0.98
05461	1.2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.98
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.98
05471	1.2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.98
05471	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.98
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.98

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

Analysis Trial# Date and Time Analysis Name

SW-846 8015B modified 1 02/07/2008 17:31

Analyst Linda C Pape Dilution Factor



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Page 2 of 2

Lancaster Laboratories Sample No. SW5272246

Group No. 1076104

VP1-S-4.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP1

Collected: 02/01/2008 09:40

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34 Discard: 03/22/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LIV14 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 10:40	Diane V Do	1
06955 02516 07361 00374 00374 01150 05708 06646 07004	Gel Lead TPH Fuels by GC (Soils) BTEX+5 Oxygenates+EDC+EDB GC/MS - Bulk Sample Prep GC/MS - Bulk Sample Prep GC - Bulk Soil Prep SW SW846 ICP Digest GC/MS HL Bulk Sample Prep Extraction - DRO (Soils) Extraction - DRO (Soils)	SW-846 6010B SW-846 8015B modified SW-846 8260B SW-846 5030A SW-846 5030A SW-846 5030A SW-846 3050B SW-846 5030A SW-846 3550B SW-846 3550B	1 1 1 2 1 1 1 1 2	02/08/2008 10:54 02/14/2008 19:48 02/12/2008 03:03 02/06/2008 18:28 02/06/2008 18:30 02/06/2008 18:34 02/07/2008 20:10 02/06/2008 18:32 02/07/2008 14:35 02/07/2008 14:35	Joanne M Gates Matthew E Barton Kathrine K Muramatsu Lois E Hiltz Lois E Hiltz Lois E Hiltz Annamaria Stipkovits Lois E Hiltz Doreen K Robles Doreen K Robles	1 1 0.98 n.a. n.a. 1 n.a.



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Page 1 of 2

Lancaster Laboratories Sample No. SW5272247

Group No. 1076104

VP1-S-8-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP1

Collected:02/01/2008 10:00

ir ya uu

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LIV18

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of T gasoline constituents eluting p start time.	PH-GRO does no rior to the C6	t include MTBE o (n-hexane) TPH-	r other GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	9.03	0.485	mg/kg	1
02516	TPH Fuels by GC (Soils)					
0251.8	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1.
	TPH quantitation is based on pe that of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibrati	on in a range th	at includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.94
02017	di-Isopropyl ether	108-20-3	N.D.	0.0009	mg/kg	0.94
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	mg/kg	0.94
02019	t-Amyl methyl ether	994-05-8	N.D.	0.0009	mg/kg	0.94
02020	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.94
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.94
05461	1,2-Dichloroethane	107-06-2	N.D.	0.0009	mg/kg	0.94
05466	Toluene	108-88-3	N.D.	0.0009	mg/kg	0.94
05471	1,2-Dibromoethane	106-93-4	N.D.	0.0009	mg/kg	0.94
05454						
05474	Ethylbenzene	100-41-4	N,D.	0.0009	mg/kg	0.94

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# Date and Time Analyst Factor

01725 TPH-GRO - Soils SW-846 8015B modified 1 02/07/2008 18:08 Linda C Pape 25



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Page 2 of 2

Lancaster Laboratories Sample No. SW5272247

Group No. 1076104

VP1-S-8-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 VP1 Collected: 02/01/2008 10:00

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

LIV18 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 11:00	Diane V Do	1
06955	Gel Lead	SW-846 6010B	1	02/08/2008 10:58	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1.	02/14/2008 20:12	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 15:05	Nicholas R Rossi	0.94
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 18:44	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 18:45	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 18:50	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 20:10	Annamaria Stipkovits	1
.06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 18:47	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	1.
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/07/2008 14:35	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5272248

Group No. 1076104

VP3-S-8-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 VP3

Collected: 02/01/2008 11:15

Submitted: 02/06/2008 10:10

Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### LIV38

CAT	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 reported concentration of TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GF	other RO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	4.22	0.490	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
07361	TPH quantitation is based on per that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	mix callbration	on in a range tha	C THOTAGS		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mġ/kg	0.96
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.96
02017	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.96
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.96
02020	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.96
.05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.96
05461	1.2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.96
05461	Toluene	108-88-3	N.D.	0.001	mg/kg	0.96
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.96
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.96
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.96

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 Analysis Name No. TPH-GRO - Soils 01725

SW-846 8015B modified 1 02/07/2008 19:57

Analysis Trial# Date and Time

Analyst Linda C Pape Dilution Factor 25



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Lancaster Laboratories Sample No. SW5272248

Group No. 1076104

VP3-S-8-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP3

Collected: 02/01/2008 11:15

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LIV38 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 11:19	Diane V Do	1
0.6055	Gel	SW-846 6010B	1	02/08/2008 11:03	Joanne M Gates	1
06955	Lead TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/14/2008 20:36	Matthew E Barton	1.
02516	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 15:28	Nicholas R Rossi	0.96
07361	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:32	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:33	Lois E Hiltz	n.a.
00374	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 19:37	Lois E Hiltz	n.a.
01150	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 20:10	Annamaria Stipkovits	1
05708	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:35	Lois E Hiltz	n.a.
06646	Extraction - DRO (Soils)	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	1.
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/07/2008 14:35	Doreen K Robles	1
07004	EXCIACTION - DRO (SOLIS)	DM 040 3330D		, ,		



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Lancaster Laboratories Sample No. SW5272249

Group No. 1076104

VP2-S-4.5-080201 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP2

Collected: 02/01/2008 11:24

Account Number: 10880

Submitted: 02/06/2008 10:10

Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

#### LIV24

CAT	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 reported concentration of TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GF	other O range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	25.	4.0	mg/kg	1
06955	Lead	7439-92-1	75.4	0.480	mg/kg	1
20516	TPH Fuels by GC (Soils)					
02516	TPH Fuers by GC (Sorrs)					
02518	Total TPH	n.a.	54.	10.	mg/kg	1
02516	TPH Motor Oil C16-C36	n.a.	54.	10.	mg/kg	1
	TPH quantitation is based on peathat of a hydrocarbon component C8 (n-octane) through C40 (n-tet	mix calibration	on in a range tha	includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.92
02017	di-Isopropyl ether	108-20-3	N.D.	0.0009	mg/kg	0.92
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	mg/kg	0.92
02019	t-Amyl methyl ether	994-05-8	N.D.	0.0009	mg/kg	0.92
02020	t-Butyl alcohol	75-65-0	N.D.	0.018	mg/kg	0.92
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.92
05461	1.2-Dichloroethane	107-06-2	N,D.	0.0009	mg/kg	0.92
05466	Toluene	108-88-3	N.D.	0.0009	mg/kg	0.92
05471	1,2-Dibromoethane	106-93-4	N.D.	0.0009	mg/kg	0.92
05474	Ethylbenzene	100-41-4	N.D.	0.0009	mg/kg	0.92
06301	Xylene (Total)	1330-20-7	N.D.	0.0009	mg/kg	0.92

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

Analysis CAT Analyst Trial# Date and Time Analysis Name No. SW-846 8015B modified 1 02/07/2008 20:34 TPH-GRO - Soils 01725

Linda C Pape

Dilution Factor 25



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Lancaster Laboratories Sample No. SW5272249

Group No. 1076104

VP2-S-4.5-080201 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP2

Collected:02/01/2008 11:24

by IH

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

.

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 15:35	Diane V Do	1
Gel	SW-846 6010B	1.	02/08/2008 11:08	Joanne M Gates	1
		1	02/14/2008 22:58	Matthew E Barton	1
		-		Nicholas R Rossi	0.92
BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	. 7			
	SW-846 5030A	1	02/06/2008 19:43	Lois E Hiltz	n.a.
		2	02/06/2008 19:45	Lois E Hiltz	n.a.
·		1		Lois E Hiltz	n.a.
GC - Bulk Soil Prep		1		-	1
SW SW846 TCP Digest	SW-846 3050B	1	02/07/2008 20:10		
- ·- ·	QW-846 5030A	1	02/06/2008 19:46	Lois E Hiltz	n.a.
,		1	02/07/2008 14:35	Doreen K Robles	1
Extraction - DRO (Soils)		1			1
Extraction - DRO (Soils)	SW-846 3550B	2	02/07/2008 14:35	Doleen v kopies	+
	Gel Lead TPH Fuels by GC (Soils) BTEX+5 Oxygenates+EDC+EDB GC/MS - Bulk Sample Prep GC/MS - Bulk Soil Prep GC - Bulk Soil Prep SW SW846 ICP Digest GC/MS HL Bulk Sample Prep Extraction - DRO (Soils)	Gel Lead SW-846 6010B TPH Fuels by GC (Soils) SW-846 8015B modified BTEX+5 Oxygenates+EDC+EDB SW-846 8260B GC/MS - Bulk Sample Prep SW-846 5030A GC - Bulk Soil Prep SW-846 5030A SW SW846 ICP Digest SW-846 3050B GC/MS HL Bulk Sample Prep SW-846 5030A Extraction - DRO (Soils) SW-846 3550B	Gel Lead SW-846 6010B 1 TPH Fuels by GC (Soils) SW-846 8015B modified 1 BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 GC/MS - Bulk Sample Prep SW-846 5030A 1 GC/MS - Bulk Sample Prep SW-846 5030A 2 GC - Bulk Soil Prep SW-846 5030A 1 SW SW846 ICP Digest SW-846 3050B 1 GC/MS HL Bulk Sample Prep SW-846 5030A 1 Extraction - DRO (Soils) SW-846 3550B 1	Gel Lead SW-846 6010B TPH Fuels by GC (Soils) BTEX+5 Oxygenates+EDC+EDB GC/MS - Bulk Sample Prep GC - Bulk Soil Prep SW-846 5030A GC/MS - Bulk Soil Prep SW-846 5030A SW-846 5030A SW-846 5030A SW-846 5030A CC/MS - Bulk Sample Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 3050B CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 3050B CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/MS - Bulk Soil Prep SW-846 5030A CC/	Gel Lead SW-846 6010B TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B modified TPH Fuels by GC (Soils) SW-846 8015B TO 2/08/2008 11:08 Thickness of Matthew E Barton Nicholas R Rossi TO 2/06/2008 19:43 To 2/06/2008 19:43 To 2/06/2008 19:45 To 2/06/2008 19:45 To 2/06/2008 19:45 To 2/06/2008 19:46 To 2/06/2008 1



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Lancaster Laboratories Sample No. SW5272250

Group No. 1076104

VP2-S-9.5-080201 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP2 Collected:02/01/2008 11:42 by IH

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34 ChevronTexaco 6001 Bollinger Canyon Rd L4310

Discard: 03/22/2008

San Ramon CA 94583

LIV29

CAT

No.

01725

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 reported concentration of Tagasoline constituents eluting pastart time.	PH-GRO does no rior to the C6	t include MTBE of (n-hexane) TPH-0	r otner GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	15.6	0.480	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
07361	TPH quantitation is based on pe that of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibrat:	ion in a range cu	ac incrudes		
	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.95
02016	di-Isopropyl ether	108-20-3	N.D.	0.0009	mg/kg	0.95
02017 02018	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	mg/kg	0.95
02018	t-Amyl methyl ether	994-05-8	N.D.	0.0009	mg/kg	0.95
	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.95
02020	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.95
05460	1,2-Dichloroethane	107-06-2	N.D.	0.0009	mg/kg	0.95
05461	Toluene	108-88-3	N,D.	0.0009	mg/kg	0.95
05466	1,2-Dibromoethane	106-93-4	N.D.	0.0009	mg/kg	0.95
05471	Ethylbenzene	100-41-4	N.D.	0.0009	mg/kg	0.95
05474 06301	Xylene (Total)	1330-20-7	N.D.	0.0009	mg/kg	0.95

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

 Analysis Name
 Method
 Trial#
 Date and Time
 Analyst

 TPH-GRO - Soils
 SW-846
 8015B
 modified
 1
 02/07/2008
 21:10
 Linda C

Analyst Factor
Linda C Pape 25



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Lancaster Laboratories Sample No. SW5272250

Group No. 1076104

VP2-S-9.5-080201 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 VP2

Collected: 02/01/2008 11:42

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LIV29 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	2	02/08/2008 13:57	Diane V Do	1 .
06955 02516 07361 00374 00374 01150 05708 056646 07004	Gel Lead TPH Fuels by GC (Soils) BTEX+5 Oxygenates+EDC+EDB GC/MS - Bulk Sample Prep GC/MS - Bulk Sample Prep GC - Bulk Soil Prep SW SW846 ICP Digest GC/MS HL Bulk Sample Prep Extraction - DRO (Soils) Extraction - DRO (Soils)	SW-846 6010B SW-846 8015B modified SW-846 8260B SW-846 5030A SW-846 5030A SW-846 5030A SW-846 3050B SW-846 5030A SW-846 3050B SW-846 3550B	1 1 1 2 1 1 1 2	02/08/2008 11:12 02/14/2008 22:34 02/11/2008 16:14 02/06/2008 19:53 02/06/2008 19:55 02/06/2008 20:00 02/07/2008 20:10 02/06/2008 19:57 02/07/2008 14:35 02/07/2008 14:35	Joanne M Gates Matthew E Barton Nicholas R Rossi Lois E Hiltz Lois E Hiltz Lois E Hiltz Annamaria Stipkovits Lois E Hiltz Doreen K Robles Doreen K Robles	1 1 0.95 n.a. n.a. 1 n.a.



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Lancaster Laboratories Sample No. SW5272251

Group No. 1076104

SB8-S-19.5-080131 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected:01/31/2008 09:15

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LI819

CAT

No.

01725

Analysis Name

TPH-GRO - Soils

CAT No. 01725	Analysis Name  TPH-GRO - Soils  The reported concentration of The gasoline constituents eluting programme to the second s	CAS Number n.a. PH-GRO does no rior to the C6	As Received Result N.D. t include MTBE or (n-hexane) TPH-G	As Received Method Detection Limit 1.0 cother GRO range	<b>Units</b> mg/kg	Dilution Factor 25
02222	start time. TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1.
06955	Lead	7439-92-1	10.3	0.480	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02510	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
07361	TPH quantitation is based on pe that of a hydrocarbon component C8 (n-octane) through C40 (n-te BTEX+5 Oxygenates+EDC+EDB	mix calibrati	on in a range cut	ar Therages		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.02
02010	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.02
02017	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.02
02018	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.02
02019	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.02
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.02
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.02
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.02
05471	1.2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.02
05471	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.02
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.02

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

Analysis

Trial# Date and Time Analyst Linda C Pape SW-846 8015B modified 1 02/07/2008 21:47

Dilution Factor 25



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Lancaster Laboratories Sample No. SW5272251

Group No. 1076104

SB8-S-19.5-080131 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected:01/31/2008 09:15

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LI819 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 11:39	Diane V Do	1.
0.6055	Gel	SW-846 6010B	1	02/08/2008 11:26	Joanne M Gates	1
06955	Lead	SW-846 8015B modified	1	02/14/2008 20:59	Matthew E Barton	1.
02516	TPH Fuels by GC (Soils)	SW-846 8260B	1	02/11/2008 17:00	Nicholas R Rossi	1.02
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 5030A	1	02/06/2008 20:08	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 20:11	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:10	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 3050B	1	02/07/2008 20:10	Annamaria Stipkovits	1.
05708	SW SW846 ICP Digest	SW-846 5030A	1	02/06/2008 20:09	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	1
07004	Extraction - DRO (Soils)		2	02/07/2008 14:35	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	4	02/01/2000 11:00		



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Lancaster Laboratories Sample No. SW5272252

Group No. 1076104

SB8-S-29.5-080131 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected:01/31/2008 10:35

Account Number: 10880

Submitted: 02/06/2008 10:10

Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LI829

CAT	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01725	TPH-GRO - Soils	n.a.	1.2	1.0	mg/kg	25
	The reported concentration of T gasoline constituents eluting p	PH-GRO does no rior to the C6	t include MTBE of (n-hexane) TPH-0	r other GRO range		
02222	start time. TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	8.29	0.480	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N,D.	10.	mg/kg	1
02510	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1 .
	TPH quantitation is based on pethat of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibrat:	ion in a range co	ac Inciaco		
07361	BTEX+5 Oxygenates+EDC+EDB				*	
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.96
02018	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.96
02017	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.96
02018	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.96
02019	t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.96
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	0.96
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.96
05466	Toluene	1.08 - 88 - 3	N.D.	0.001	mg/kg	0.96
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.96
05474	Ethylbenzene	100-41-4	N.D.	0,001	mg/kg	0.96
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.96

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

Analysis

CAT Trial# Date and Time Analyst Analysis Name No. Linda C Pape SW-846 8015B modified 1 02/07/2008 22:23 01725 TPH-GRO - Soils

Dilution Factor 25



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Lancaster Laboratories Sample No. SW5272252

Group No. 1076104

SB8-S-29.5-080131 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected:01/31/2008 10:35

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34 Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LI829 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 11:58	Diane V Do	1
0.000	Gel	SW-846 6010B	1	02/08/2008 11:31	Joanne M Gates	1
06955	Lead TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/14/2008 21:23	Matthew E Barton	1
02516	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 17:23	Nicholas R Rossi	0.96
07361	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:07	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 20:08	Lois E Hiltz	n.a.
00374 01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 20:12	Lois E Hiltz	n.a.
01150	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 20:10	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:10	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	1
0.7004	Extraction - DRO (Soils)	SW-846 3550B	2	02/07/2008 14:35	Doreen K Robles	1



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Lancaster Laboratories Sample No. SW5272253

Group No. 1076104

SB8-S-34.5-080131 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected:01/31/2008 10:40

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LI834

			As Received	As Received Method		Dilution
CAT No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	530.	40.	mg/kg	1000
	The reported concentration of T gasoline constituents eluting p	PH-GRO does no rior to the C6	t include MTBE c (n-hexane) TPH-	r other GRO range		
02222	start time. TPH-DRO by 8015B w/Silica Gel	n.a,	67.	4.0	mg/kg	1
06955	Lead	7439-92-1	7.86	0.476	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1.
07361	that of a hydrocarbon component CB (n-octane) through C40 (n-te The chlorobenzene surrogate dat matrix problems evident in the BTEX+5 Oxygenates+EDC+EDB	etracontane) no ca is outside t	che QC limits du	15.		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.027	mg/kg	53.76
02017	di-Isopropyl ether	108-20-3	N.D.	0.054	mg/kg	53.76
02017	Ethyl t-butyl ether	637-92-3	N.D.	0.054	mg/kg	53.76
02010	t-Amyl methyl ether	994-05-8	N.D.	0.054	mg/kg	53.76
02019	t-Butyl alcohol	75-65-0	N.D.	1.1	mg/kg	53.76
05460	Benzene	71-43-2	N.D.	0.027	mg/kg	53.76
05461	1.2-Dichloroethane	107-06-2	N.D.	0.054	mg/kg	53.76
05466	Toluene	108-88-3	N.D.	0.054	mg/kg	53.76
05471	1.2-Dibromoethane	106-93-4	N.D.	0.054	mg/kg	53.76
05474		100-41-4	0.10	0.054	mg/kg	53.76
06301	Xylene (Total)	1330-20-7	N.D.	0.054	mg/kg	53.76
00,01	The GC/MS volatile analysis wa	s performed ac	cording to the h	igh level		
				6 h h o		

State of California Lab Certification No. 2116

reporting limits were raised.

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

soil method due to the level of non-target compounds. Therefore, the



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Lancaster Laboratories Sample No. SW5272253

Group No. 1076104

SB8-S-34.5-080131 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected:01/31/2008 10:40

by IH

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LI834

Laboratory Chronicle

		Laboracory	CIII	11010		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	02/08/2008 09:14	Linda C Pape	1000
		SW-846 8015B	1	02/08/2008 12:18	Diane V Do	1
02222	TPH-DRO by 8015B w/Silica	2M-840 8013B	-	02/00/2000 22:21		
	Gel	SW-846 6010B	1	02/08/2008 11:35	Joanne M Gates	1
06955	Lead		1	02/14/2008 21:47	Matthew E Barton	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	_		Roy R Mellott Jr	53.76
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2008 21:59	-	
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:14	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 20:13	Eric L Vera	n.a.
		SW-846 5030A	1	02/06/2008 20:15	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep		1	02/07/2008 20:10	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	<u>.</u>		Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:17		1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	1
	Extraction - DRO (Soils)	SW-846 3550B	2	02/07/2008 14:35	Doreen K Robles	1
07004	EXCIRCTION - DEC (SOLIS)	DW 040 33302	-	- '		



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Lancaster Laboratories Sample No. SW5272254

Group No. 1076104

SB8-S-39.5-080131 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected: 01/31/2008 10:45

Account Number: 10880

Submitted: 02/06/2008 10:10

Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

LI839

CAT

No.

01725

TPH-GRO - Soils

CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
04,14	The reported concentration of T gasoline constituents eluting p start time.	PH-GRO does no rior to the C6	t include MTBE c (n-hexane) TPH-	r other GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1.
06955	Lead	7439-92-1	8.93	0.490	mg/kg	1
****						
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
07361	TPH quantitation is based on per that of a hydrocarbon component C8 (n-octane) through C40 (n-ter BTEX+5 Oxygenates+EDC+EDB	mix callbrati	ion in a range ti	iat includes		
02016	Methyl Tertiary Butyl Ether	1634-04-4	0.039	0.0005	mg/kg	0.97
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.97
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.97
02010	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.97
02019	t-Butyl alcohol	75-65-0	0.034	0.019	mg/kg	0.97
05460	Benzene	71-43-2	0.007	0.0005	mg/kg	0.97
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.97
05461	Toluene	108-88-3	0.002	0.001	mg/kg	0.97
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.97
05471	Ethylbenzene	100-41-4	0.015	0.001	mg/kg	0.97
06301	Xylene (Total)	1330-20-7	0.007	0.001	mg/kg	0.97

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

Analysis Trial# Date and Time Analysis Name

SW-846 8015B modified 1 02/08/2008 02:57

Analyst Linda C Pape Dilution Factor 25



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Lancaster Laboratories Sample No. SW5272254

Group No. 1076104

SB8-S-39.5-080131 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SB8

Collected:01/31/2008 10:45 by IH

Submitted: 02/06/2008 10:10 Reported: 02/20/2008 at 14:34

Discard: 03/22/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

LI839 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 12:38	Diane V Do	1
0.6055	Gel	SW-846 6010B	1	02/08/2008 09:45	Joanne M Gates	1
06955	Lead	SW-846 8015B modified	1	02/14/2008 22:10	Matthew E Barton	1
02516	TPH Fuels by GC (Soils)		.1-		Nicholas R Rossi	0.97
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 17:47		
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:18	Lois E Hiltz	n.a.
		SW-846 5030A	2	02/06/2008 20:20	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep		4		Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1.	02/06/2008 20:23		
	SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 20:10	Annamaria Stipkovits	1
05708			1	02/06/2008 20:21	Lois E Hiltz	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	т.	- 1		1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	T
	Extraction - DRO (Soils)	SW-846 3550B	2	02/07/2008 14:35	Doreen K Robles	1
07004	EXELECTION - DEG (20112)	DM 0-10 3330D	_			



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076104

Reported: 02/20/08 at 02:34 PM

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 <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD Max
Batch number: 08037A31B TPH-GRO - Soils	Sample N.D.	number(s):	5272245-52 mg/kg	72252 82		67-119		
Batch number: 080380006A TPH-DRO by 8015B w/Silica Gel	Sample N.D.	number(s):	5272246-52 mg/kg	7225 <b>4</b> 96	94	71-109	2	20
Batch number: 080380007A Total TPH TPH Motor Oil C16-C36	Sample N.D. N.D.	number(s): 5.0 5.0	5272246-52 mg/kg mg/kg	72254 90	90	66-113	0	20
Batch number: 080385708002 Lead	Sample N.D.	number(s): 0.490	5272245-52 mg/kg	72254 96		90-110		
Batch number: 08038A02A TPH-GRO - Soils	Sample N.D.	number(s):	5272253-52 mg/kg	93 93		67-119		
Batch number: 080430010A TPH-DRO by 8015B w/Silica Gel	Sample N.D.	number(s):	5272245 mg/kg	98	100	71-109	2	20
Batch number: 080500001A Total TPH TPH Motor Oil C16-C36	Sample N.D. N.D.	number(s): 10. 10.	5272245 mg/kg mg/kg	97	99	66-113	2	20
D000421AD	Sample	number(s):	5272247-5	272252,5	272254			
Batch number: B080421AB	N.D.	0.0005	mq/kq	104	105	72-117	1	30
Methyl Tertiary Butyl Ether	N.D.	0.001	mg/kg	97	101	72-120	4	30
di-Isopropyl ether Ethyl t-butyl ether	N.D.	0.001	mg/kg	100	102	67-124	2	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	101	105	73-116	4	30
t-Amyl methyl ether t-Butyl alcohol	N.D.	0.020	mg/kg	100	100	66-146	0	30
Benzene	N.D.	0.0005	mg/kg	99	102	84-115	3	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	106	108	76-135	. 2	30
Toluene	N.D.	0.001	mg/kg	98	102	81-116	<b>4</b> 0	30 30
1,2-Dibromoethane	N.D.	0.001	mg/kg	1.04	104	77-114	1	30
Ethylbenzene	N.D.	0.001	mg/kg	95	97	82-115	0	30
Xylene (Total)	N.D.	0.001	mg/kg	98	98	82~117	0	30
		number(s)		272246				
Batch number: B080422AA		0.0005	mq/kq	99	96	72-117	4	30
Methyl Tertiary Butyl Ether	N.D.	0.000	mg/kg	94	96	72-120	2	30
di-Isopropyl ether	N.D. N.D.	0.001	mg/kg	95	94	67-124	1	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	97	93	73-116	5	30
t-Amyl methyl ether	N.D.	0.020	mg/kg	98	105	66-146	7	30
t-Butyl alcohol	N.D.	0.020	J., J	98	1.03	84-115	5	30
Benzene	N.D.	0.001	mg/kg	101	113	76-135	11	3.0
1,2-Dichloroethane	N.D.	0.001		96	103	81-116	7	30
Toluene	N.D.	0.001	mg/kg	101	103	77-114	2	30
1,2-Dibromoethane Ethylbenzene	N.D.	0.001	mg/kg	93	99	82-115	6	30

\*- Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076104

Reported: 02/20/08 at 02:34 PM

### Laboratory Compliance Quality Control

Analysis Name Xylene (Total)	Blank <u>Result</u> N.D.	Blank <u>MDL</u> 0.001	Report <u>Units</u> mg/kg	LCS <u>%REC</u> 96	LCSD <u>%REC</u> 101	LCS/LCSD <u>Limits</u> 82-117	<u>RPD</u> 5	RPD Max
Batch number: R080371AC	Sample n	umber(s):	5272253					20
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	100	103	72-117	3	30
di-Isopropyl ether	N.D.	0.050	mg/kg	97	100	72-120	3	30
Ethyl t-butyl ether	N.D.	0.050	mg/kg	1.00	100	72-115	0	30
	N.D.	0.050	mg/kg	98	100	73-116	3	30
t-Amyl methyl ether	N.D.	1.0	mg/kg	102	111	59-154	8	30
t-Butyl alcohol		0.025	mg/kg	103	104	84-115	1	30
Benzene	N.D.	0.023	mg/kg	105	108	76-126	3	30
1,2-Dichloroethane	N.D.			108	110	81-116	i	30
Toluene	N.D.	0.050	mg/kg		112	77-114	6	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	1.06		82-115	3	30
Ethylbenzene	N.D.	0.050	mg/kg	107	110		2	30
Xylene (Total)	N.D.	0.050	mg/kg	106	108	82-117	4	30

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 08037A31B TPH-GRO - Soils	Sample 86	number(s)	: 5272245 39-118	-527225 2	2 UNSPI 30	K: P262899			
Batch number: 080385708002 Lead	Sample 94	number(s)	: 5272245 75-125	-527225 4	4 UNSP	K: 5272254 8.93	BKG: 5272254 9.69	8	20
Batch number: 08038A02A TPH-GRO - Soils	Sample 74	number(s)	: 5272253 39-118	-527225 8	30	K: P266499			
Batch number: B080421AB Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	100 100 97 98 127 94 116 94 97 90 94		59-119 58-113 60-112 63-112 50-143 66-112 62-130 58-116 66-108 54-116 52-117			254 UNSPK:			
Batch number: B080422AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene	Sample 96 97 96 94 155* 102 105	number(s	5272245 59-119 58-113 60-112 63-112 50-143 66-112 62-130 58-116	5-52722	46 UNSF	K: 5272245			

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076104

Reported: 02/20/08 at 02:34 PM

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

Dup RPD DUP DUP RPD BKG MSD MS RPD Max <u>%REC</u> 96 RPD MAX Conc Conc %REC <u>Limits</u> Analysis Name 66-108 1,2-Dibromoethane 54-116 Ethylbenzene 102 52-117 Xylene (Total)

### 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: 08037A31B Trifluorotoluene-F

			the state of the s	 
5272245	92			
5272246	91			
5272247	87			
5272248	96			
5272249	84			
5272250	89			
5272251	77			
5272252	85			
Blank	85	-		
LCS	101			
MS	95			
MSD	91			
¥ 3 3	61.122	 		

Limits: 61-122

Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080380006A

Orthoterphenyl

5272246	101					
5272247	99					
5272248	98					
5272249	101					
5272250	96					
5272251	98					
5272252	104					
5272253	106					
5272254	99					
Blank	102					
LCS	115					
LCSD	111					

Limits: 59-129

Analysis Name: TPH Fuels by GC (Soils)

Batch number: 080380007A

Chlorobenzene Orthoterphenyl

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



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Page 4 of 5

### Quality Control Summary

enorted	: 02/20/08 at 02:34 PI	M.		
repor cea	. 02/20/00 ac 02.01	Surrogate Qua	ality Control	
272246	84	99		
272247	77	97		
272248	95	99		
272249	82	98		
272250	75	97		
272251	94	95		
272252	96	98		
272253	0*	97		
272254	92	95		
lank	85	98		
	85	103		
.CS		100		
CSD	80	100		
imits:	37-125	47-145		
Analysis N	Jame: TPH-GRO - Soils ber: 08038A02A			
saten num	Trifluorotoluene-F			
5272253	84			
5272254	86			
Blank	91			
LCS	101			
4S	83			
	87			
MSD Limits:				
MSD Limits: Analysis 1	87 61-122 Name: TPH-DRO by 8015B w/Si	lica Gel		
MSD Limits: Analysis 1	87 61-122	lica Gel		
MSD Limits: Analysis I Batch numl	87 61-122 Name: TPH-DRO by 8015B w/Si ber: 080430010A	lica Gel		
MSD Limits: Analysis I Batch num 5272245	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl	lica Gel	·	
MSD Limits: Analysis I Batch num 5272245 Blank	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl 101 106	lica Gel	-	
AsD Limits: Analysis 1 Batch num 5272245 Blank LCS	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119	lica Gel		
MSD Limits: Analysis N Batch num 5272245 Blank LCS	87 61-122 Name: TPH-DRO by 8015B w/Si ber: 080430010A Orthoterphenyl 101 106 119 121	lica Gel		
MSD Limits: Analysis I Batch num  5272245 Blank LCS LCSD Limits:	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129			
MSD Limits: Analysis I Batch num  5272245 Blank LCS LCSD Limits: Analysis	87 61-122 Name: TPH-DRO by 8015B w/Siper: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soil			
MSD Limits: Analysis I Batch num  5272245 Blank LCS LCSD Limits: Analysis	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129			
MSD Limits: Analysis I Batch num  5272245 Blank LCS LCSD Limits: Analysis Batch num	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A	Ls)		
MSD Limits: Analysis 1 Batch num 5272245 Blank LCS LCSD Limits: Analysis: Batch num 5272245	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene	ls) Orthoterphenyl		
MSD Limits: Analysis I Batch num  5272245 Blank LCS LCSD Limits: Analysis: Batch num  5272245 Blank	87 61-122 Name: TPH-DRO by 8015B w/Sioer: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene	ls) Orthoterphenyl 105		
MSD Limits: Analysis 1 Batch num 5272245 Blank LCS Limits: Analysis Batch num 5272245 Blank	87 61-122 Name: TPH-DRO by 8015B w/Siper: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene	Orthoterphenyl		
MSD Limits: Analysis I Batch num  5272245 Blank LCS LCSD Limits: Analysis	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene  77 97 101	Orthoterphenyl  105 107 112		
MSD Limits: Analysis 1 Batch num 5272245 Blank LCS LCSD Limits: Analysis 1 Batch num 5272245 Blank LCS LCSD Limits:	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene  77 97 101 107	Orthoterphenyl  105 107 112 111 47-145		
Asplants: Analysis 1 Batch num 5272245 Blank LCS LCSD Limits: Analysis 1 Batch num 5272245 Blank LCS LCSD Limits: Analysis 2 Analysis 3	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene  77 97 101 107 37-125 Name: BTEX+5 Oxygenates+ED	Orthoterphenyl  105 107 112 111 47-145 C+EDB		
Analysis 1 5272245 Blank LCS LCSD Limits: Analysis 1 5272245 Blank LCSD Limits: Analysis 2 LCSD Limits: Analysis 3	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene  77 97 101 107	Orthoterphenyl  105 107 112 111 47-145	Toluene-d8	4-Bromofluorobenze
Analysis In Section 1982 Analysis In Section 1	87 61-122 Name: TPH-DRO by 8015B w/Siber: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene  77 97 101 107 37-125 Name: BTEX+5 Oxygenates+EDuber: B080421AB Dibromofluoromethane	Orthoterphenyl  105 107 112 111 47-145 C+EDB	Toluene-d8	4-Bromofluorobenze
Asplants: Analysis 1 Batch num 5272245 Blank LCS LCSD Limits: Analysis 1 Batch num 5272245 Blank LCS LCSD Limits: Analysis 2 Analysis 3	87 61-122 Name: TPH-DRO by 8015B w/Siper: 080430010A Orthoterphenyl  101 106 119 121 59-129 Name: TPH Fuels by GC (Soilber: 080500001A Chlorobenzene  77 97 101 107 37-125 Name: BTEX+5 Oxygenates+ED	Orthoterphenyl  105 107 112 111 47-145 C+EDB 1,2-Dichloroethane-d4		

\*- Outside of specification

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



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Page 5 of 5

### Quality Control Summary

Client Na	me: ChevronTexaco		roup Number: 1076104	
Reported:	02/20/08 at 02:34 F	PM -	7 1	
		Surrogate Qu	ality Control	
5272250	107	99	97	82 83
5272251	105	99	97	8 <i>3</i> 8 <i>5</i>
5272252	102	100	97	
5272254	99	93	104	106
Blank	101	105	94	84
LCS	97	99	100	92
LCSD	98	103	99	91
MS	102	93	102	96
110				70-111
Limits:	71-114	70-109	70-123	70-111
Amolinada Na	ame: BTEX+5 Oxygenates+ED0	C+EDB		
Anarysis No	er: B080422AA	0.255		
Bacch numbe	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
	DIDIOMOLIMOIOMECHANE	1,2		
5272245	101	103	96	82
5272246	100	102	95	81
	102	105	96	85
Blank	98	102	99	91
LCS		98	1.01	96
LCSD	101	95	101	90
MS	98	33		
Limits:	71-114	70-109	70-123	70-111
Limits:	/1-114	, 0 203		
Analysis N	ame: BTEX+5 Oxygenates+ED	C+EDB		
Batch numb	er: R080371AC			4-Bromofluorobenzene
Baccii iidiib	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromorruoropenzene
				06
5272253	88	88	98	96
Blank	93	94	96	93
LCS	97	100	102	103
LCSD	99	100	105	110
TCSD				GO 111
Limits:	71-114	70-109	70-123	70-111

\*- Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

## Chevron California Region Analysis Request/Chain of Custody

212	Lancaster Laboratories
7/	Where quality is a science.

For Lancaster Laboratories use only

Acct. #: 10880 | Sample #: 5272245 - 254

241887

SCR#.

Group 1076104 Analyses Requested 020408-20 Preservation Codes Preservative Codes Facility #: 30-7233 (A1L) H = HCI T = Thiosulfate Site Address: 2259 FIRST ST., LIVERMORE B = NaOH $N = HNO_3$ Silica Gel Cleanup  $S = H_2SO_4$  O = OtherChevron PM: I. ROBB Lead Consultant: CRA □ J value reporting needed Consultant/Office: EMERYVILLE, CA possible for 8260 compounds Oxygenates LGAD Consultant Pri. Mgr.: C. EVANS TPH 8015 MOD DRO EX ead 7420 | 7421 | Consultant Phone #: 510-420-3344 Fax# 510-420-9170 8260 8021 MTBE Confirmation Confirm highest hit by 8260 Sampler: \H Confirm all hits by 8260 ☐ Non SAR: \_\_ ☐ Run \_\_\_\_ oxy's on highest hit Service Order #: T09. Time New Run \_\_\_\_ oxy's on all hits Repeat Top Field Depth Year Month Day Collected Field Pt. Matrix Sample Point Name Comments / Remarks 4.5 08 02 01 0935 VP3-4.5 Email results to 0940 VP18-4.5 certains, ocrawald. 5 8 1000 HUK (OM 1110 X × × ハベ 8 × × 1124 EDF to : XX X × 1142 VP2-9.5 d characteranceld. Time Date Pate Time 2/4/08 0630 Received by: Relinquished by: SECURE LOCATION Turnaround Time Requested (TAT) (piease circle) Time Relinquished by: STD. TAT 72 hour 48 hour 2/4/08 1535 2/4/23 5 day 24 hour 4 day Date 24-28/600 Data Package Options (please circle if required) Received b **QC Summary** Type I - Full Relinquished by Commercial Carrier ☐ Coelt Deliverable not needed Type VI (Raw Data) DOLO FedEx WIP (RWQCB) Temperature Upon Receipt (54.20° Yes / No Disk 3460 Rev. 10/04/01

## Chevron California Region Analysis Request/Chain of Custody

41	<u>ancaster Laboratories</u> Where quality is a science.
A !	Where quality is a science.

620408-18												Α	naly	ses	Group 10/0/01									
Facility #: 30-7233 (A1L) Site Address: 2259 FIRST STREET, LIVER MOK												Preservation							es		<del>-</del>	1	ative Code	• •
											-		Silica Gel Cleanup		,s,	-	1			+		H = HCI N = HNO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub>	T = Thios B = NaOl O = Othe	4
Chevron PM: T. POSB Lead Consultant: CRA					<u> </u>				ers			Se Se		SCAUS.				-			☐ J value repor	ting needed		
Consultant/Office: _E/			<u> </u>	<u> </u>	<del></del>	<del></del>		]		Containers	D 8021 □		lica (	i 1			n					☐ Must meet lo		
Consultant Prj. Mgr.:0						<del></del>	<del></del>			Ö	<b>E</b> S.		X		Oxygenates LFAO		8015	6010				possible for 8		uiius
Consultant Phone #:	510-4	<u> 20-331</u>	frt	Fax#:	510- u	120-91	70			er of	8260	GRO	DRO		8	7421	ယ	Ö				8021 MTBE Co		60
Sampler: 1H									æ	ğ.	1	TPH 8015 MOD	MOD	둟	jenat		3					☐ Confirm all h		
Service Order #:			<del></del>	SAR:	·			۵	Composite	Total Number of	BTEX + CATAGE		TPH 8015 MOD	8260 full scan	ŏ	Lead 7420 🖂	Ţ					Run oxy's on highest hit		
Field Point Name	Matrix	Repeat Sample	Top Depth	Year M	onth Day	Time Collected	New Field Pt.	Grab	ő	Total	Ê	TPH	표	8260	L	Lead	HOL	はな				☐Runox	y's on all hit	s
SB8-19.5	5	ОСПЕТ			01 31	0915		×		1	X	X	×		X		X	X				Comments /		
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588-39.5	1		39.5			1045		╀			F	-	_				_			1		cevans >	@ Coom	orld.
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Turnaround Time Requested (TAT) (please circle)					Relinquishe	d by: Hecc	l		}			2	Date /५।a	8 1	Tim 533	e /	Rece	ived b	y: <u>~~</u>	11	marye	Date Z/4/08	1534	
STD. TAT 72 hour 48 hour 24 hour 4 day 5 day						Re/incluished by/				<i>-</i>	20 2			Date		Time . パの		Received by:				0	Z-J-2	Time
					Relinquishe	d by:	×E			D			Date	_	"Tim		Rece	wed t	ý. )	7		Date	Time	
Data Package Options (please circle if required)  QC Summary Type 1 – Full															-	Received by				-t	Date	Time		
Type VI (Raw Data)					Relinquished by Commercial Carrier: UPS FedEx Other M						BILL						1000		94	2		plate	1000	
WIP (RWQCB) Disk						Temperature Upon Receipt <u>レン・イン</u> C°									Custory Seals Intact Yes Do									

# Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D. TNTC IU umhos/cm C Cal meq g ug ml	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s) milliliter(s)	BMQL MPN CP Units NTU F Ib. kg mg I	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s)
ml	milliliter(s)	ul	fibers greater than 5 microns in length per ml
m3	cubic meter(s)	fib >5 um/ml	

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

- 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:

X,Y,Z

### Organic Qualifiers

Defined in case narrative

A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
J	Estimated value	U ,	Compound was not detected
Ň	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
•	confirmation columns >25%	+	Correlation coefficient for MSA <0.995
H	Compound was not detected		

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1076106. Samples arrived at the laboratory on Wednesday, February 06, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description
VP1-S-8-080201 Grab Soil

ELECTRONIC CRA COPY TO ELECTRONIC CRA

ODVTO

COPY TO

Attn: Charlotte Evans

5272263

Lancaster Labs Number

Attn: I Hull

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

Respectfully Submitted,

June L. Ferguson
Senior Specialist



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Page 1 of 1

Lancaster Laboratories Sample No. SW5272263

Group No. 1076106

VP1-S-8-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 VP1 Collected:02/01/2008 10:00

Account Number: 10880

Submitted: 02/06/2008 10:10 Reported: 03/11/2008 at 10:03 ChevronTexaco

Discard: 04/11/2008

6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

CAT

As Received

Method

Dilution

No. Analysis Name CAS Number

Result

Detection Limit

As Received

Units

Factor

The analysis for Bulk Density, Total Organic Carbon, Moisture Content, Effective Permeability, Total Porosity, air-filled porosity and water-filled porosity was subcontracted to another laboratory. See Attached Reports.

# Chevron California Region Analysis Request/Chain of Custody

Lancaster Where quality is a	Labora science.	<u>atories</u>				<b>~</b>	$\sim$	Ao:	ct. #:	<u>10</u>	88	<u>o</u>	Samp	For Lole #:	<u>52</u>	722	26.	3	es us	se on		_scr#:_		4106 4106	7
				<u> </u>	090	<u>B- 2</u>	0		· · · · · · · · · · · · · · · · · · ·					Pres							╀╴	<u>`</u>		e Code	s
Facility #: 30 - 7 2 Site Address: 225 Chevron PM: I . Q Consultant/Office: E Consultant Prj. Mgr.: _ Consultant Phone #:	9 F1 OBB MERY C E1 510-4	UILLE 1ANS 120-33	Lead C	onsulta t	nt: <u>C'RJ</u>	A	170			ਰ		0 GRO	UNO ECONICA GALCAGAIUM	SKAVE.	7421		6010	PARAMETERS			S	= HCl = HNO <sub>3</sub> = H <sub>2</sub> SO <sub>4</sub> J value re Must mee possible fo 021 MTBE Confirm h	Porting at lowest or 8260	= Thiosu = NaOH = Other needed it detection compoundation	ulfate I on limits ands
Sampler: 1 H Service Order #:		Repeat	Top	n SAR:			New	Grab	Composite	Total Number	BTEX WITHE	TPH 8015 MOD	1PH 8015 MOD DRO 8260 full scan	T Oxygenates LEAD	Lead 7420	TOHERO	LEAD	PHYSICAL				Confirm a   Run   Run	oxy's o	on highes	
Point Name  VP3-4.5  VP1-8  SSB1-1.5  VP3-8  VP2-4.5  VP2-4.5	Matrix S S S S S	Sample		68	Aonth Day	Collected 0 9 3 5 0940 1000 1110 1113 1124 1142	Field Pt.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			××	××××	×	×××××		×	XXX	**				comments could be commented by the could be	res;	ults t crawc com	rld.
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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

FedEx

Temperature Upon Receipt 1.34-20°

UPS

WIP (RWQCB)

Disk

3460 Rev. 10/04/01

Custody Seals Intact?



February 20, 2008

Holly Julian Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17601-5994

Re: 5272263

PTS File No: 38098

Dear Ms. Julian:

Enclosed are final data for samples submitted from your Project # 5272263. All analyses were performed by applicable ASTM, EPA or API methodology. An electronic version of the report has previously been sent to your attention. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal or return of the samples.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please call me at (562) 907-3607 with any questions or if you require additional information.

Sincerely,

PTS Laboratories, Inc.

Rachel Spitz Project Manager

Encl.

PTS File No:

38098

Client:

Lancaster Laboratories

# PHYSICAL PROPERTIES DATA - DRAINAGE (EFFECTIVE) POROSITY

PROJECT NAME: NA

PROJECT NO:

5272263

SAMPLE	DEPTH,	METHODS: SAMPLE ORIENTATION	ASP RP40/ ASTM D2216 MOISTURE CONTENT, % weight	API RP40 DENSITY BULK, g/cc	API RP40 TOTAL POROSITY, %Vb	ASTM D425M EFFECTIVE POROSITY, %Vb
VP1-S-8-080201	N/A	R	5.7	1.78	33.9	31.0

PTS File No:

38098

Client:

Lancaster Laboratories

# PHYSICAL PROPERTIES DATA - AIR FILLED POROSITY

PROJECT NAME:

NA

PROJECT NO:

5272263

		METHODS:		API RP 40 POROSITY, %Vb (2)	
SAMPLE	DEPTH,	SAMPLE ORIENTATION (1)	TOTAL	AIR-FILLED	WATER-FILLED
ID. VP1_S_8_080201	N/A	V	33.9	23.7	10.2

<sup>(1)</sup> Sample Orientation: H = horizontal; V = vertical; R = remolded (2) Total Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids; Vb = Bulk Volume, cc

### PTS Laboratories

PTS File No:

Client:

38098

Lancaster Laboratories

### **ORGANIC CARBON DATA - TOC**

PROJECT NAME:

NA

PROJECT NO:

5272263

		METHOD:	WALKLEY-BLACK
			TOTAL ORGANIC
	orotu.	SAMPLE	CARBON,
SAMPLE	DEPTH, ft.	MATRIX	mg/kg
ID.			

VP1-S-8-080201

N/A

SOIL

490

Subcontractor: DTS LCBS	ī	TIRO # ·			te: 2-X-1	O.C.
•	L	LI Γ.Ο. <del>π</del>		<del></del> Re	sults etce:	TAT
Contact:  Submit report to:   Submit report to	Ext: 1749	Dept. #:	) ×	<u>C</u> c	who Fact	
Sample Identification:	Number/size of containers (total)			malyser 7	Remark	
VPI-S-8-080701	X	XXX			5272	213 2/1 1000
1						
						· · · · · · · · · · · · · · · · · · ·
Fee:						
136.		Chain of	Custody	<u> </u>		
Sample relinquished by:    Date	Time Samp	ole received by:	PTS	2-8-08		for transfer:
	New Holland Pike Lar	200ster PA 17601-509	4 (717) 656 23	01 Fax (717) 6	5K 2K01	# 22/01 (02/02/202

# 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)
meg	millieguivalents	kg	kilogram(s)
9	gram(s)	mg	milligram(s)
ug	microgram(s)	Ĭ	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
_	to a thora. The number following	a the cian is the limit of	quantitation, the smallest amount of analyte which

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

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

Inorganic Qualifiers

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**

Defined in case narrative

TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument Estimated value Presumptive evidence of a compound (TICs only) Concentration difference between primary and	BEMNS	Value is <crdl, (msa)="" <0.995<="" additions="" amount="" analysis="" but="" calculation="" coefficient="" compound="" control="" correlation="" detected="" digestion="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" msa="" not="" of="" out="" post="" precision="" spike="" standard="" th="" to="" used="" was="" within="" ≥idl=""></crdl,>
Compound was not detected	-	
	Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument Estimated value Presumptive evidence of a compound (TICs only) Concentration difference between primary and confirmation columns >25%	Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument Estimated value Presumptive evidence of a compound (TICs only) Concentration difference between primary and confirmation columns >25%  #

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

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

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### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1076102. Samples arrived at the laboratory on Wednesday, February 06, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description	<u> </u>	 Lancaster Labs	Number
CPT2-S-22-080204 Grab Soil		5272235	
CPT2-S-30-080204 Grab Soil		5272236	
CPT2-S-35-080204 Grab Soil		5272237	

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: I Hull



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

Respectfully Submitted,

Auran M. Goshert
Susan M. Goshert

Group Leader



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Lancaster Laboratories Sample No. SW5272235

Group No. 1076102

CPT2-S-22-080204 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2

Collected: 02/04/2008 12:15 by 1

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 10:01

Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CPT22

			As Received		
		As Received	Method		Dilution
Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
The reported concentration of T gasoline constituents eluting p start time.	PH-GRO does no rior to the C6	t include MTBE or (n-hexane) TPH-0	RO range		
TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1 .
TPH Fuels by GC (Soils)					
Total TPH	n.a.	N.D.	10.	mg/kg	1
TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
that of a hydrocarbon component	mix calibrati	on in a range tha	at includes		· · · · · · · · · · · · · · · · · · ·
BTEX+5 Oxygenates+EDC+EDB					
Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.99
di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.99
Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.99
t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.99
t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.99
Benzene	71-43-2	N.D.	0.0005	mg/kg	0.99
1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.99
Toluene	108-88-3	N.D.	0.001	mg/kg	0.99
1.2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.99
	100-41-4	N.D.	0.001	mg/kg	0.99
Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.99
	TPH-GRO - Soils The reported concentration of Tgasoline constituents eluting pstart time. TPH-DRO by 8015B w/silica Gel  TPH Fuels by GC (Soils)  Total TPH TPH Motor Oil C16-C36 TPH quantitation is based on pethat of a hydrocarbon component C8 (n-octane) through C40 (n-temporary of the constitution of the	TPH-GRO - Soils n.a.  The reported concentration of TPH-GRO does no gasoline constituents eluting prior to the C6 start time.  TPH-DRO by 8015B w/Silica Gel n.a.  TPH Fuels by GC (Soils)  Total TPH n.a.  TPH Motor Oil C16-C36 n.a.  TPH quantitation is based on peak area comparthat of a hydrocarbon component mix calibratic C8 (n-octane) through C40 (n-tetracontane) no BTEX+5 Oxygenates+EDC+EDB  Methyl Tertiary Butyl Ether 1634-04-4 di-Isopropyl ether 108-20-3 Ethyl t-butyl ether 637-92-3 t-Amyl methyl ether 994-05-8 t-Butyl alcohol 75-65-0 Benzene 71-43-2 1,2-Dichloroethane 107-06-2 Toluene 108-88-3 1,2-Dibromoethane 106-93-4 Ethylbenzene 100-41-4	TPH-GRO - Soils n.a. N.D. The reported concentration of TPH-GRO does not include MTBE or gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO by 8015B w/Silica Gel n.a. N.D.  TPH-DRO by 8015B w/Silica Gel n.a. N.D.  TPH Fuels by GC (Soils)  Total TPH n.a. N.D.  TPH quantitation is based on peak area comparison of the sampthat of a hydrocarbon component mix calibration in a range the C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons  BTEX+5 Oxygenates+EDC+EDB  Methyl Tertiary Butyl Ether 1634-04-4 N.D.  di-Isopropyl ether 108-20-3 N.D. Ethyl t-butyl ether 637-92-3 N.D. t-Amyl methyl ether 994-05-8 N.D. t-Butyl alcohol 75-65-0 N.D. Benzene 71-43-2 N.D. 1,2-Dichloroethane 107-06-2 N.D. Toluene 108-88-3 N.D. 1,2-Dibromoethane 106-93-4 N.D. Ethylbenzene 100-41-4 N.D.	As Received   Method	Analysis Name  CAS Number  Result  Detection Limit  TPH-GRO - Soils  n.a.  N.D.  1.0  mg/kg  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.  TPH-DRO by 8015B w/Silica Gel  n.a.  N.D.  Total TPH  n.a.  N.D.  TOTAL TPH unantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons.  BTEX+5 Oxygenates+EDC+EDB  Methyl Tertiary Butyl Ether  108-20-3  N.D.  0.0005  mg/kg  t-Amyl methyl ether  994-05-8  N.D.  0.001  mg/kg  t-Butyl alcohol  75-65-0  N.D.  0.001  mg/kg  t-Butyl alcohol  75-65-0  N.D.  0.001  mg/kg  t-Butyl alcohol  75-65-0  N.D.  0.001  mg/kg  TOLuene  108-88-3  N.D.  0.001  mg/kg  Ethylbenzene  100-41-4  N.D.  0.001  mg/kg  TOLuene  108-88-3  N.D.  0.001  mg/kg  Ethylbenzene  100-41-4  N.D.  0.001  mg/kg  Ethylbenzene

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
 Analysis
 Dilution

 No.
 Analysis Name
 Method
 Trial#
 Date and Time
 Analyst
 Factor

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/07/2008 10:15
 Linda C Pape
 25



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Lancaster Laboratories Sample No. SW5272235

Group No. 1076102

Account Number: 10880

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

CPT2-S-22-080204 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2

Collected:02/04/2008 12:15

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 10:01 Discard: 03/20/2008

CPT22						
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	2	02/08/2008 13:18	Diane V Do	1
	Gel					
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/15/2008 01:20	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1.	02/08/2008 15:06	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:29	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:32	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 19:28	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:31	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	. 1	02/07/2008 14:35	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/13/2008 18:10	Sally L Appleyard	1



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Lancaster Laboratories Sample No. SW5272236

Group No. 1076102

CPT2-S-30-080204 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2

Collected: 02/04/2008 12:30 by IH

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 10:01

Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CPT30

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	4.4	1.0	mg/kg	25
	The reported concentration of T gasoline constituents eluting p start time.	PH-GRO does no rior to the C6	t include MTBE c (n-hexane) TPH-	or other GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	27.	4.0	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
:	TPH quantitation is based on pethat of a hydrocarbon component C8 (n-octane) through C40 (n-te	mix calibrati	on in a range th	at includes	÷ .	
07361	BTEX+5 Oxygenates+EDC+EDB	100				
				0.006	(1	F1 07
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.026	mg/kg	51.87
02017	di-Isopropyl ether	108-20-3	N.D.	0.052	mg/kg	51.87
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.052	mg/kg	51.87
02019	t-Amyl methyl ether	994-05-8	N.D.	0.052	mg/kg	51.87
02020	t-Butyl alcohol	75-65-0	N.D.	1.0	mg/kg	51.87
05460	Benzene	71-43-2	N.D.	0.026	mg/kg	51.87
05461	1,2-Dichloroethane	107-06-2	N.D.	0.052	mg/kg	51.87
05466	Toluene	108-88-3	N.D.	0.052	mg/kg	51.87
05471	1.2-Dibromoethane	106-93-4	N.D.	0.052	mg/kg	51.87
05474	Ethylbenzene	100-41-4	1.1	0.052	mg/kg	51.87
06301	Xylene (Total)	1330-20-7	0.18	0.052	mg/kg	51.87

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# Date and Time Analysis Factor

1725 TPH-GRO - Soils SW-846 8015B modified 1 02/07/2008 13:22 Linda C Pape 25



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Lancaster Laboratories Sample No. SW5272236

Group No. 1076102

CPT2-S-30-080204 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2

Collected: 02/04/2008 12:30

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 10:01 Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

+ **					
TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/08/2008 10:01	Diane V Do	1
			00/15/0000 01 44	Matthew H Douten	1
TPH Fuels by GC (Soils)	SW-846 BUISB modified	Τ.			1
BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2008 22:21	Roy R Mellott Jr	51.87
GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:52	Eric L Vera	n.a.
GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:50	Eric L Vera	n.a.
GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 19:38	Eric L Vera	n.a.
GC - Bulk Soil Prep	SW-846 5030A	2	02/06/2008 19:45	Eric L Vera	n.a.
GC - Bulk Soil Prep	SW-846 5030A	3	02/06/2008 19:46	Eric L Vera	n.a.
GC - Bulk Soil Prep	SW-846 5030A	4	02/06/2008 19:47	Eric L Vera	n.a.
GC - Bulk Soil Prep	SW-846 5030A	5	02/06/2008 19:48	Eric L Vera	n.a.
GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:51	Eric L Vera	n.a.
Extraction - DRO (Soils)	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	1
Extraction - DRO (Soils)	SW-846 3550B	2	02/13/2008 18:10	Sally L Appleyard	1
	Gel TPH Fuels by GC (Soils) BTEX+5 Oxygenates+EDC+EDB GC/MS - Bulk Sample Prep GC/MS - Bulk Sample Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC - Bulk Soil Prep GC/MS HL Bulk Sample Prep Extraction - DRO (Soils)	Gel TPH Fuels by GC (Soils) BTEX+5 Oxygenates+EDC+EDB GC/MS - Bulk Sample Prep GC/MS - Bulk Sample Prep GC - Bulk Soil Prep	Gel TPH Fuels by GC (Soils) SW-846 8015B modified 1 BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 GC/MS - Bulk Sample Prep SW-846 5030A 1 GC/MS - Bulk Soil Prep SW-846 5030A 2 GC - Bulk Soil Prep SW-846 5030A 1 GC - Bulk Soil Prep SW-846 5030A 2 GC - Bulk Soil Prep SW-846 5030A 3 GC - Bulk Soil Prep SW-846 5030A 3 GC - Bulk Soil Prep SW-846 5030A 4 GC - Bulk Soil Prep SW-846 5030A 5 GC/MS HL Bulk Sample Prep SW-846 5030A 5 GC/MS HL Bulk Sample Prep SW-846 5030A 1 Extraction - DRO (Soils) SW-846 3550B 1	Gel TPH Fuels by GC (Soils) SW-846 8015B modified 1 02/15/2008 01:44 BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 02/07/2008 22:21 GC/MS - Bulk Sample Prep SW-846 5030A 1 02/06/2008 19:52 GC/MS - Bulk Soil Prep SW-846 5030A 2 02/06/2008 19:50 GC - Bulk Soil Prep SW-846 5030A 1 02/06/2008 19:38 GC - Bulk Soil Prep SW-846 5030A 2 02/06/2008 19:45 GC - Bulk Soil Prep SW-846 5030A 3 02/06/2008 19:45 GC - Bulk Soil Prep SW-846 5030A 4 02/06/2008 19:47 GC - Bulk Soil Prep SW-846 5030A 5 02/06/2008 19:47 GC - Bulk Soil Prep SW-846 5030A 5 02/06/2008 19:47 GC - Bulk Soil Prep SW-846 5030A 5 02/06/2008 19:48 GC/MS HL Bulk Sample Prep SW-846 5030A 1 02/06/2008 19:51 Extraction - DRO (Soils) SW-846 3550B 1 02/07/2008 14:35	Gel TPH Fuels by GC (Soils) SW-846 8015B modified 1 02/15/2008 01:44 Matthew E Barton BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 02/07/2008 22:21 Roy R Mellott Jr GC/MS - Bulk Sample Prep SW-846 5030A 1 02/06/2008 19:52 Eric L Vera GC/MS - Bulk Soil Prep SW-846 5030A 2 02/06/2008 19:50 Eric L Vera GC - Bulk Soil Prep SW-846 5030A 1 02/06/2008 19:38 Eric L Vera GC - Bulk Soil Prep SW-846 5030A 2 02/06/2008 19:45 Eric L Vera GC - Bulk Soil Prep SW-846 5030A 3 02/06/2008 19:45 Eric L Vera GC - Bulk Soil Prep SW-846 5030A 4 02/06/2008 19:46 Eric L Vera GC - Bulk Soil Prep SW-846 5030A 4 02/06/2008 19:47 Eric L Vera GC - Bulk Soil Prep SW-846 5030A 5 02/06/2008 19:47 Eric L Vera GC - Bulk Soil Prep SW-846 5030A 5 02/06/2008 19:48 Eric L Vera GC/MS HL Bulk Sample Prep SW-846 5030A 1 02/06/2008 19:51 Eric L Vera Extraction - DRO (Soils) SW-846 3550B 1 02/07/2008 14:35 Doreen K Robles



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Lancaster Laboratories Sample No. SW5272237

Group No. 1076102

CPT2-S-35-080204 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2 Collected:02/04/2008 12:45 by IH

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 10:01

Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CPT35

•				As Received		
CAT			As Received	Method	* .	Dilutio
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	1.3	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.	prior to the C6	(n-hexane) TPH-	GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	12.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	12.	mq/kg	1
	TPH quantitation is based on rethat of a hydrocarbon componer C8 (n-octane) through C40 (n-t Due to insufficient sample size reporting limits. The values limits attainable.	nt mix calibrati cetracontane) no ce, we were unab	on in a range tĥ rmal hydrocarbon le to report oun	nat includes ns. cusual		
07361	BTEX+5 Oxygenates+EDC+EDB					·
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.98
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.98
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.98
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.98
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	0.98
05460	Benzene	71-43-2	0.0009	0.0005	mg/kg	0.98
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.98
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.98
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.98
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.98
06301	Xylene (Total)	1330-20-7	0.002	0.001	mg/kg	0.98

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



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Page 2 of 2

Lancaster Laboratories Sample No. SW5272237

Group No. 1076102

CPT2-S-35-080204 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT2

Collected: 02/04/2008 12:45

Account Number: 10880

Submitted: 02/06/2008 10:10

Reported: 02/18/2008 at 10:01

Discard: 03/20/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CPT35				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	d 1	02/07/2008 10:52	Linda C Pape	25
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 10:20	Diane V Do	, 1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	d 1	02/15/2008 02:08	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/08/2008 15:29	Nicholas R Rossi	0.98
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	. 1	02/06/2008 19:57	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:56	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	- 1	02/06/2008 19:58	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:00	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/07/2008 14:35	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/13/2008 18:10	Sally L Appleyard	1



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Page 1 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/18/08 at 10:01 AM Group Number: 1076102

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 <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 08037A31B TPH-GRO - Soils	Sample n	umber(s):	5272235,52 mg/kg	72237 82		67-119		. *
Batch number: 080380006A TPH-DRO by 8015B w/Silica Gel	Sample n	umber(s):	5272235-52 mg/kg	72237 96	94	71-109	2	20
Batch number: 08038A02A TPH-GRO - Soils	Sample n	umber(s): 1.0	5272236 mg/kg	93		67-119		
Batch number: 080440019A Total TPH TPH Motor Oil C16-C36	Sample r N.D. N.D.	umber(s): 10. 10.	5272235-52 mg/kg mg/kg	72237 90	93	66-113	3	20
Batch number: B080391AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample r. N.D. N.D. N.D. N.D. N.D. N.D. N.D. N	umber(s): 0.0005 0.001 0.001 0.001 0.020 0.0005 0.001 0.001 0.001	mg/kg mg/kg mg/kg mg/kg	72237 97 96 95 95 102 99 100 100 100 93 96	100 99 98 99 106 104 104 103 101 95	72-117 72-120 72-115 73-116 59-154 84-115 76-126 81-116 77-114 82-115 82-117	3 3 4 4 5 4 2 1 2 2	30 30 30 30 30 30 30 30 30 30 30
Batch number: R080371AC Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample r N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	number(s): 0.025 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	5272236 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	100 97 100 98 102 103 105 108 106 107	103 100 100 100 111 104 108 110 112 110	72-117 72-120 72-115 73-116 59-154 84-115 76-126 81-116 77-114 82-115 82-117	3 3 0 3 8 1 3 1 6 3 2	30 30 30 30 30 30 30 30 30 30 30 30 30

### 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

MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD

\*- Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.



Client Name: ChevronTexaco

# Analysis Report

Group Number: 1076102

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Page 2 of 3

### Quality Control Summary

Reported: 02/18/08	3 at 10:01 AN %REC		Limits	RPD	MAX	Conc	Conc	RPD	Max_
		le number(s	 \	527223	, —- 7 IINSPK	P262899			
atch number: 08037A311 PH-GRO - Soils	86 86	87	39-118	2	30	. 1202033			
Satch number: 08038A02	A Samp	le number(s	): 5272236	UNSPK:	P26649	9			
PH-GRO - Soils	74	80	39-118	8	30				
Batch number: B080391A		le number(s		,527223	7 UNSPK	: P269330			
Methyl Tertiary Butyl	Ether 105 100		59-119 58 <b>-</b> 113						-
i-Isopropyl ether thyl t-butyl ether	95		60-112						
-Amyl methyl ether	96		63-112						
-Butyl alcohol	113		51-134		100				
enzene	102		66-112						
,2-Dichloroethane	117		62-130						
oluene	102		50-121			•			
,2-Dibromoethane	104		66-108				•		
thylbenzene	97		54-116						
ylene (Total)	99		52-117						
urrogate recoveries w	which are outsid	de of the QC	window an	re confi	rmed	Control			
unless attributed to d Analysis Name: TPH-GRO Batch number: 08037A31	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
Surrogate recoveries w unless attributed to d Analysis Name: TPH-GRO Batch number: 08037A31 Trifluoro	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
unless attributed to d Analysis Name: TPH-GRC Batch number: 08037A33 Trifluoro 5272235 84	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
unless attributed to description of the control of	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
unless attributed to description of the control of	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
Analysis Name: TPH-GRC Batch number: 08037A31 Trifluoro 5272235 84 5272237 90 Blank 85 LCS 101	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
Analysis Name: TPH-GRC Batch number: 08037A31 Trifluoro 5272235 84 5272237 90 Blank 85 LCS 101 MS 95	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
unless attributed to define the companies of the companie	lilution or othe O - Soils IB	de of the QC	window an	re confi	rmed				
unless attributed to describe the Analysis Name: TPH-GRC Batch number: 08037A31 Trifluoro  5272235 84 5272237 90 Blank 85 LCS 101 MS 95 MSD 91	D by 8015B w/Si	de of the QC	window an	re confi	rmed				
unless attributed to d Analysis Name: TPH-GRC Batch number: 08037A31 Trifluoro  5272235 84 5272237 90 Blank 85 LCS 101 MS 95 MSD 91  Limits: 61-122  Analysis Name: TPH-DRC Batch number: 08038000 Orthoterp	D by 8015B w/Si	de of the QC	window an	re confi	rmed				
unless attributed to description of the control of	D by 8015B w/Si	de of the QC	window an	re confi	rmed				
Unless attributed to description of the control of	D by 8015B w/Si	de of the QC	window an	re confi	rmed				
unless attributed to d Analysis Name: TPH-GRC Batch number: 08037A31 Trifluoro  5272235 84 5272237 90 Blank 85 LCS 101 MS 95 MSD 91  Limits: 61-122  Analysis Name: TPH-DRC Batch number: 08038000 Orthoterp  5272235 100 5272236 105 5272237 101 Blank 102	D by 8015B w/Si	de of the QC	window an	re confi	rmed				
Unless attributed to description of the control of	D by 8015B w/Si	de of the QC	window an	re confi	rmed				

Analysis Name: TPH-GRO - Soils Batch number: 08038A02A Trifluorotoluene-F

Limits:

\*- Outside of specification

59-129

(1) The result for one or both determinations was less than five times the LOQ.

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



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### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/18/08 at 10:01 AM

Group Number: 1076102

Surrogate Quality Control

Blank LCS MS MSD	91 101 83 87			
Limits:	61-122		 	
	ame: TPH Fuels by GC er: 080440019A Chlorobenzene	(Soils) Orthoterphenyl		
5272235	91	103		 
5272236	124	101		
5272237	95	98		
Blank	95	103		
LCS	115	104		
LCSD	93	106		
Limits:	37-125	47-145		

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch numb	per: B080391AA Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzen
5272235	102	100	97	81
5272237	95	93	99	90
Blank	99	104	95	81
LCS	97	98	101	91
LCSD	97	98	100	91
MS	99	97	102	97
Limits:	71-114	70-109	70-123	70-111

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Daton name	per: R080371AC Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5272236	90	93	92	91
Blank	93	94	96	93
LCS	97	100	. 102	103
LCSD	99	100	105	110
Limits:	71-114	70-109	70-123	70-111

\*- Outside of specification

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

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

## Chevron California Region Analysis Request/Chain of Custody 242887

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Facility #: 30 - 723	3 (	AIL							Τ	$\top$			_		F	res	erva	tion	Code	8			Preserv	ative Code	es .
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Lancaster Laboratories

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

## 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 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)	$\mathbf{I}$	liter(s)
mĬ	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**Inorganic Qualifiers** 

- ppb parts per billion
- Dry weight 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:

X,Y,Z

#### **Organic Qualifiers**

Defined in case narrative

#### TIC is a possible aldol-condensation product Value is <CRDL, but ≥IDL Α Analyte was also detected in the blank Ε Estimated due to interference C Pesticide result confirmed by GC/MS М Duplicate injection precision not met Spike amount not within control limits D Compound quatitated on a diluted sample Ν Method of standard additions (MSA) used Concentration exceeds the calibration range of S Ε for calculation the instrument Compound was not detected Estimated value Post digestion spike out of control limits Presumptive evidence of a compound (TICs only) W Duplicate analysis not within control limits Concentration difference between primary and Correlation coefficient for MSA < 0.995 confirmation columns >25% Compound was not detected

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

#### SAMPLE GROUP

The sample group for this submittal is 1076369. Samples arrived at the laboratory on Thursday, February 07, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client DescriptionLancaster Labs NumberCPT1-W-080205 Grab Water5273882

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: I Hull

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

Respectfully Submitted,

andin Dolling

Christine Dulaney Senior Specialist



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Lancaster Laboratories Sample No. WW5273882

Group No. 1076369

CPT1-W-080205 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT1

Collected:02/05/2008 12:30

by IH

Account Number: 10880

Submitted: 02/07/2008 09:20 Reported: 02/21/2008 at 14:05

Discard: 03/23/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CPT1-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor		
01728	TPH-GRO - Waters	n.a.	3,300.	50.	ug/l	1		
	The reported concentration of T gasoline constituents eluting p	PH-GRO does not rior to the C6	t include MTBE or (n-hexane) TPH-G	otner RO range				
	start time.		47,000.	7,300.	ug/l	25		
02202	TPH-DRO (Water) w/Si Gel Due to the nature of the sample	n.a.			ug/ =			
	for analysis. The reporting li	macrix, a reu mite were rais	ed accordingly.	abca				
	for analysis. The reporting in	MICS WEIG IGIS	ca accorazing=1.					
02500	TPH Fuels by GC (Waters)							
02501	Total TPH	n.a.	1,500.	400.	ug/l	1		
02508	TPH Motor Oil C16-C36	n.a.	1,500.	400.	ug/1	1		
	TPH quantitation is based on peak area comparison of the sample pattern to that of a hydrocarbon component mix calibration in a range that includes C8 (n-octane) through C40 (n-tetracontane) normal hydrocarbons. Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly. The chlorobenzene surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
06058	BTEX+5 Oxygenates+EDC+EDB							
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.	2.	ug/l	1		
05401	Benzene	71-43-2	5.	0.5	ug/l	1		
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1		
05407	Toluene	108-88-3	2.	0.5	ug/l	1		
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	ug/l	1		
05415	Ethylbenzene	100-41-4	3.	0.5	ug/l	1		
06310	Xylene (Total)	1330-20-7	2.	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.



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Lancaster Laboratories Sample No. WW5273882

Group No. 1076369

CPT1-W-080205 Grab Water Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT1

Collected: 02/05/2008 12:30

Account Number: 10880

Submitted: 02/07/2008 09:20 Reported: 02/21/2008 at 14:05

Discard: 03/23/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CPT1-

Laboratory Chronicle

		Daboracory	CILL O.	117.010		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	02/19/2008 14:12	Patrick N Evans	1
02202	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	02/12/2008 12:11	Diane V Do	25
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	02/12/2008 02:29	Matthew E Barton	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 09:49	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/12/2008 10:36	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/11/2008 09:49	Ginelle L Feister	1
02376	Extraction - Fuel/TPH	SW-846 3510C	1	02/10/2008 10:00	Kelli M Knapp	1
07003	(Waters) Extraction - DRO (Waters)	SW-846 3510C	1	02/09/2008 08:00	Olivia I Santiago	1



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076369

Reported: 02/21/08 at 02:05 PM

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 <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 080390019A Total TPH TPH Motor Oil C16-C36	Sample nu N.D. N.D.	mber(s): 40. 40.	5273882 ug/l ug/l	84	81	60-120	· 3	20
Batch number: 080400004A TPH-DRO (Water) w/Si Gel	Sample nu N.D.	mber(s): 29.	5273882 ug/l	100	98	60-124	3	20
Batch number: 08050A54A TPH-GRO - Waters	Sample nu N.D.	mber(s): 50.	5273882 ug/l	93	89	75-135	4	30
Batch number: D080421AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	Sample nu N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	mber(s): 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	5273882  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l  ug/l	103 110 111 108 117 104 105 103 94 103 103		73-119 70-123 74-120 79-113 74-117 78-119 69-135 85-115 81-114 82-119 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 <u>Limits</u>	RPD	RPD MAX	BKG Conc	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: D080421AA	Sample	number(s)	: 5273882	UNSPK:	P2731	00			
Methyl Tertiary Butyl Ether	103	102	69-127	1	30				
di-Isopropyl ether	110	110	68-129	0	30				
Ethyl t-butyl ether	109	110	78-119	1	30				•
t-Amyl methyl ether	108	104	72-125	4	30				
t-Butyl alcohol	115	110	70-121	4	30				
Benzene	108	108	83-128	0	30				
1.2-Dichloroethane	103	103	70-143	0	3.0				
Toluene	107	108	83-127	1	30				
1,2-Dibromoethane	89	92	78-120	4	30				
Ethylbenzene	107	106	82-129	1	30				
Xylene (Total)	105	106	82-130	0	30				

\*- Outside of specification

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

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.



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### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076369

Reported: 02/21/08 at 02:05 PM

### 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 Fuels by GC (Waters)

Batch numbe	r: 080390019A			
	Chlorobenzene	Orthoterphenyl		
5273882	0 *	86		
Blank	81	92		
LCS	91	102		
LCSD	88	96		
LCSD		30		
Limits:	28-152	52-131		
Analysis Na Batch numbe	me: TPH-DRO (Water) w/Si er: 080400004A Orthoterphenyl	Gel		
5273882	92			
Blank	99			
LCS	115			
LCSD	115			
DCSD	115		_	
Limits:	59-131			
Analysis Na Batch numbe	ame: TPH-GRO - Waters er: 08050A54A Trifluorotoluene-F			
5273882	126			
Blank	83			
LCS	99			
LCSD	98			
Limits:	63-135			
7 7	ame: BTEX+5 Oxygenates+EDC	מרוש . י		
Analysis No	er: D080421AA	.+ BDD		
Bacch numbe	Dibromofluoromethane	1.2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
	DIDIONOLIGOTOMECHANE	1,1 510115100011111		
5273882	85	83	87	103
Blank	94	94	93	101
LCS	92	91	91	102
MS	95	92	94	104
MSD	91	90	90	101
HOD	24			
Limits:	80-116	77-113	80-113	78-113

### \*- Outside of specification

<sup>(1)</sup> The result for one or both determinations was less than five times the LOQ.

<sup>(2)</sup> The unspiked result was more than four times the spike added.

# Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories Where quality is a science.	08-1D	Acc	t#	108	80	_ Sa	mple#	: _Ze	27.	Laboratories use o	241890 scr#
Facility #: 30-7233 (AIL)		П					Pre	serva	tion	Codes	Preservative Codes H = HCl T = Thiosulfate
Site Address: 2259 FIRST ST. LINER NO	E, (A			-	$\vdash$	용					N = HNO <sub>3</sub> B = NaOH
Chevron PM: T. PoBB Lead Consultant:			g			TPH 8015 MOD DRO 🔯 Silica Gel Cleanup	Ś				$S = H_2SO_4$ $O = Other$
Consultant/Office:EMERYVILLE , CA			of Containers	8021		a Gel	SC#SS				☐ J value reporting needed ☐ Must meet lowest detection limits
Consultant Prj. Mgr.: C. EVANS			į	80%		Silic	٥		15		possible for 8260 compounds
Consultant Phone #: 510 - 420 - 3944 Fax #: 51	1-420-9170		jo	8260	GRO	S .	5	7421	8		8021 MTBE Confirmation
Sampler: 1, HULL			Composite Total Number	144 88	g	90	260 full scan	7	٥		☐ Confirm highest hit by 8260 ☐ Confirm all hits by 8260
Service Order #: Non SAR:			Composite	BTEX + STEE	TPH 8015 MOD	015 N	full sc	ead 7420	J Mo		Runoxy's on highest hit
Field Repeat Top Point Name Matrix Sample Depth Year Monti	Time New Day Collected Field Pt.	Grab	Con	BE	TPR	표	8260 full scan	Lead	TPH		Run oxy's on all hits
	05 1230	×	7	æ× \	X	×	>	<	X		Comments / Remarks PLEASE EMAIL
											PESULTS TO:
				+	<u> </u>						Cevans > Ocramorid.
					-						EDF DATA TO:
											dohare@craword.com
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				十	+			<u> </u>	<u> </u>		
				上							
Turnaround Time Requested (TAT) (please circle)	Relinquished by:	ul	:				Date 5/08	Tim		Received by:	Hart 2/5/28 /632
STD. TAT 72 hour 48 hour 24 hour 4 day 5 day	Relinquished by:	)	. <b>.</b> .				Date つ3	/Sz		Received by:	Date Time
	Relinquished by:	سرم	<del>/ 6</del>	ye.		_	Date	Tim		Received by:	Date Time
Data Package Options (please circle if required)  OC Summary  Type I – Fulf					- 		<del></del> .				Date Time
Type VI (Raw Data) Coelt Deliverable not needed	Relinquished by Comi UPS FedEx	mercia	I Carrie	T. (4)	<u>ac</u>					Received by:	all street of the
WIP (RWQCB) Disk	Temperature Upon Re	eceipt	9-7-	u ·/	C°					Custody Seals Initio	1? Yes 4%

### **Lancaster Laboratories Explanation of Symbols and Abbreviations**

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

N.D. TNTC IU umhos/cm C Cal meq g ug ml m3	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s) milliliter(s) cubic meter(s)	BMQL MPN CP Units NTU F Ib. kg mg I ul fib >5 um/ml	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s) fibers greater than 5 microns in length per ml
<	less than – The number following be reliably determined using this		<u>quantitation</u> , the smallest amount of analyte which can
>	greater than		
ppm	parts per million – One ppm is ec	quivalent to one milligra	m per kilogram (mg/kg), or one gram per million grams.

gas per liter of gas.

parts per billion ppb

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight concentration to approximate the value present in a similar sample without moisture. basis

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

Inorganic Qualifiers

U.S. EPA data qualifiers:

$\circ$	raar	nic	Ou	ıal	ifi	are
	luai	HG	wu	a	ш	<i>-</i> 13

A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quatitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" amount="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and	*	Duplicate analysis not within control limits
-	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
4.4	O = == = d was not detected		

Compound was not detected

Defined in case narrative X,Y,Z

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

### SAMPLE GROUP

The sample group for this submittal is 1076371. Samples arrived at the laboratory on Thursday, February 07, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

Client Description	<u> </u>	Lancaster Labs Number
CPT1-S-21-080205 Grab Soil	· ·	5273884
CPT1-S-36-080205 Grab Soil		5273885

ELECTRONIC CRA
COPY TO
ELECTRONIC CRA
COPY TO

Attn: Charlotte Evans

Attn: I Hull



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

Respectfully Submitted,

Valerie L. Tomayko Group Leader



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Page 1 of 2

Lancaster Laboratories Sample No. SW5273884

Group No. 1076371

CPT1-S-21-080205 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT1

Collected: 02/05/2008 10:50 by IH

Submitted: 02/07/2008 09:20 Reported: 02/18/2008 at 22:59

Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CP121

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the C6	t include MTBE of (n-hexane) TPH-	or other -GRO range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	. 1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on printed of a hydrocarbon component C8 (n-octane) through C40 (n-to-	t mix calibrati	on in a range th	nat includes		
07361	BTEX+5 Oxygenates+EDC+EDB	÷				
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.02
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.02
02018	Ethyl t-butyl ether	637 <b>-</b> 92-3	N.D.	0.001	mg/kg	1.02
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.02
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.02
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.02
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.02
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.02
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.02
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.02
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.02
		4.7				

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
 Analysis
 Analysis
 Dilution

 No.
 Analysis Name
 Method
 Trial#
 Date and Time
 Analyst
 Factor

 01725
 TPH-GRO - Soils
 SW-846
 8015B modified
 1
 02/08/2008
 03:36
 Linda C Pape
 25



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Lancaster Laboratories Sample No. SW5273884

Group No. 1076371

CPT1-S-21-080205 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT1 Collected: 02/05/2008 10:50

Submitted: 02/07/2008 09:20 Reported: 02/18/2008 at 22:59 Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CP121						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/14/2008 10:51	Diane V Do	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/15/2008 02:31	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/14/2008 01:36	Holly Berry	1.02
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/07/2008 14:28	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/07/2008 14:32	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1.	02/07/2008 14:30	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/07/2008 14:31	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/13/2008 13:00	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/13/2008 18:10	Sally L Appleyard	1



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Page 1 of 2

Lancaster Laboratories Sample No. SW5273885

Group No. 1076371

CPT1-S-36-080205 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT1 Collected:02/05/2008 13:08

Submitted: 02/07/2008 09:20 Reported: 02/18/2008 at 22:59

Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CP136

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01725	TPH-GRO - Soils	n.a.	1.0	1.0	mg/kg	25
	The reported concentration of gasoline constituents eluting start time.					et.
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	100.	4.0	mg/kg	1
02516	TPH Fuels by GC (Soils)	1.0				
02518	Total TPH	n.a.	380.	50.	mg/kg	5
02552	TPH Motor Oil C16-C36	n.a.	380.	50.	mg/kg	5 .
	TPH quantitation is based on p that of a hydrocarbon componen C8 (n-octane) through C40 (n-t	t mix calibrati	on in a range th	at includes		1
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.02
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.02
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.02
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.02
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1.02
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.02
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.02
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.02
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.02
05474	Ethylbenzene	100-41-4	Ń.D.	0.001	mq/kq	1.02
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.02

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

No. Analysis Name TPH-GRO - Soils 01725

Method Trial# Date and Time SW-846 8015B modified 1

Analysis 02/08/2008 04:16

Analyst Linda C Pape Dilution Factor 25



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Page 2 of 2

Lancaster Laboratories Sample No. SW5273885

Group No. 1076371

CPT1-S-36-080205 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 CPT1

Collected:02/05/2008 13:08

by IH

Submitted: 02/07/2008 09:20 Reported: 02/18/2008 at 22:59

Discard: 03/20/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CP136		4.3				
02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/14/2008 14:07	Diane V Do	
	Gel			, ,		
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/15/2008 02:55	Matthew E Barton	. 5
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/14/2008 01:59	Holly Berry	1.02
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1 1	02/07/2008 14:40	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/07/2008 14:39	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/07/2008 14:36	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/07/2008 14:38	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	02/13/2008 13:00	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/13/2008 18:10	Sally L Appleyard	1



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#### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076371

Reported: 02/18/08 at 10:59 PM

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 <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 08038A02A TPH-GRO - Soils	Sample no	umber(s): 1.0	5273884-52 mg/kg	73885 93		67-119		
Batch number: 080430010A TPH-DRO by 8015B w/Silica Gel	Sample no	umber(s): 4.0	5273884-52 mg/kg	73885 98	100	71-109	2	20
Batch number: 080440019A Total TPH TPH Motor Oil C16-C36	Sample no N.D. N.D.	umber(s): 10. 10.	5273884-52 mg/kg mg/kg	73885 90	93	66-113	3	20
Batch number: B080442AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene	Sample no N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	umber(s): 0.0005 0.001 0.001 0.001 0.020 0.0005 0.001 0.001 0.001	.5273884-52 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	73885 96 91 95 95 104 96 102 92 97 89	95 90 91 92 101 90 99 87 93	72-117 72-120 67-124 73-116 66-146 84-115 76-135 81-116 77-114 82-115	1 2 5 3 6 3 6 4 6	30 30 30 30 30 30 30 30 30 30
Xylene (Total)	N.D.	0.001	mg/kg	92	86	82-117	7	30

#### 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 <u>Limits</u>	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD
Batch number: 08038A02A TPH-GRO - Soils	Sample 74	number(s)	: 5273884 39-118	-52738 8	85 UNSP 30	K: P26649	9		
Batch number: B080442AA Methyl Tertiary Butyl Ether	Sample 46*	number(s)	: 5273884 59-119	-52738	85 UNSP	K: P27671	7		
di-Isopropyl ether Ethyl t-butyl ether	48* 46*		58-113 60-112						
t-Amyl methyl ether	45*		63-112						
t-Butyl alcohol Benzene	40* 63*		50-143 66-112						
1,2-Dichloroethane Toluene	56* 62		62-130 58-116			•			,
1,2-Dibromoethane Ethylbenzene	52* 60		66-108 54-116						
Xylene (Total)	61	•	52-117						

#### \*- Outside of specification

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



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Page 2 of 3

#### Quality Control Summary

Client Name: ChevronTexaco

Reported: 02/18/08 at 10:59 PM

Group Number: 1076371

Sample Matrix Quality Control

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

<u>Analysis Name</u>

MS %REC MSD %REC MS/MSD <u>Limits</u>

BKG MAX Conc DUP Conc DUP RPD

Dup RPD <u>Max</u>

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: 08038A02A Trifluorotoluene-F

5273884 86 5273885 93 Blank 91 LCS 101 MS 83 MSD 87

Limits: 61-122

Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number:  $080430010\mathrm{A}$ 

Orthoterphenyl

5273884 94 5273885 96 Blank 106 119 LCSD 121

Limits: 59-129

Analysis Name: TPH Fuels by GC (Soils)

Batch number: 080440019A Chlorobenzene

5273884	92		103
5273885	97		105
Blank	95		103
LCS	115		104
LCSD	93		106

Limits: 37-125

47-145

Orthoterphenyl

Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080442AA

,	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene		
5273884	99	100	96	84		
5273885	97	109	98	84		
Blank	102	104	95	82		

#### \*- Outside of specification

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



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Page 3 of 3

### Quality Control Summary

Client Name: ChevronTexaco

Reported: 02/18/08 at 10:59 PM

Surrogate Quality Control

LCS 98 98 99 92
LCSD 98 100 99 92
MS 100 116\* 99 93

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

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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

### Chevron California Region Analysis Request/Chain of Custody

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### 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
ΙU	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)	Ĭ	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
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight 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**

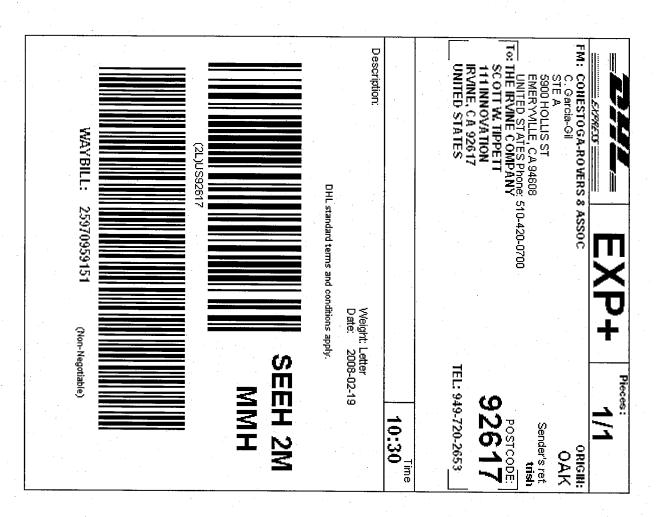
#### **Inorganic Qualifiers**

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	· U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U.	Compound was not detected		
Y,Y,Z	Defined in case narrative		

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

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

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#### ANALYTICAL RESULTS

Prepared for:

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

925-842-8582

Prepared by:

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

#### **SAMPLE GROUP**

The sample group for this submittal is 1076648. Samples arrived at the laboratory on Friday, February 08, 2008. The PO# for this group is 0015017173 and the release number is ROBB.

·		
Client Description	<del></del>	Lancaster Labs Number
SSB7-S-1.5-080206 Grab Soil		5275482
SSB7-S-3.5-080206 Grab Soil		5275483
SSB7-S-5.5-080206 Grab Soil		5275484
SSB7-S-7-080206 Grab Soil		5275485
SSB9-S-1.5-080206 Grab Soil	•	5275486
SSB9-S-3-080206 Grab Soil		5275487
SSB9-S-5-080206 Grab Soil		5275488
SSB9-S-9-080206 Grab Soil		5275489
SSB10-S-3-080206 Grab Soil		5275490
SSB10-S-5-080206 Grab Soil		5275491
SSB10-S-9-080206 Grab Soil		5275492
SSB5-S-1.5-080206 Grab Soil		5275493
SSB5-S-3-080206 Grab Soil		5275494
SSB5-S-5.5-080206 Grab Soil		5275495
SSB5-S-7-080206 Grab Soil		5275496
SSB6-S-1.5-080206 Grab Soil		5275497
SSB6-S-3-080206 Grab Soil		5275498
SSB3-S-3-080206 Grab Soil		5275499
SSB3-S-5-080206 Grab Soil		5275500
SSB11-S-1.5-080206 Grab Soil		5275501
SSB11-S-3-080206 Grab Soil		5275502
SSB11-S-5-080206 Grab Soil		5275503
SSB11-S-8.5-080206 Grab Soil		5275504
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ELECTRONIC

CRA

Attn: Charlotte Evans

COPY TO ELECTRONIC

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Attn: I Hull

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

Respectfully Submitted,

May E Lawy
Max E. Snavely
Senior Specialist



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Lancaster Laboratories Sample No. SW5275482

Group No. 1076648

SSB7-S-1.5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB7 Collected:02/06/2008 09:23 by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received CAT As Received Method Dilution Detection No. Analysis Name CAS Number Result Units Factor Limit 0.480 mg/kg 06955 7439-92-1 13.0 Lead

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.

				111010		
CAT		enigen en en en en en en en en en en en en e		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/12/2008 11:48	Eric L Eby	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:05	Annamaria Stipkovits	1



mg/kg

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Page 1 of 1

Lancaster Laboratories Sample No. SW5275483

Group No. 1076648

SSB7-S-3.5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB7

Collected:02/06/2008 09:37

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Lead

06955

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

0.485

As Received

9.73

CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit

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.

7439-92-1

		Haberacery	CHILCHE		
CAT		·	Analysis		Dilution
No.	Analysis Name	Method	Trial# Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1 02/12/2008 22:41	Thomas F McLamb Sr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1 02/11/2008 20:25	Annamaria Stipkovits	. 1



mg/kg

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Lancaster Laboratories Sample No. SW5275484

Group No. 1076648

SSB7-S-5.5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB7 Collected:02/06/2008 09:44 by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Lead

06955

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

0.471

CAT As Received Method Dilution
No. Analysis Name CAS Number Result Detection Units Factor
Limit

4.60

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.

7439-92-1

		Haboracory	CIII	111010		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/12/2008 22:44	Thomas F McLamb Sr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275485

Group No. 1076648

SSB7-S-7-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB7 Collected: 02/06/2008 10:11

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT Analysis Name As Received

Method

Dilution

No.

CAS Number

Result

Detection Limit

Units

Factor

06955

Lead

3.97 7439-92-1

0.476

mg/kg

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 06955 Lead 05708

Method SW-846 6010B SW-846 3050B

Analysis Trial# Date and Time 02/12/2008 22:55

Analyst Thomas F McLamb Sr Annamaria Stipkovits

Factor

Dilution

SW SW846 ICP Digest

02/11/2008 20:25



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Lancaster Laboratories Sample No. SW5275486

Group No. 1076648

SSB9-S-1.5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB9 Collected:02/06/2008 10:35 by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received As Received Method Dilution CAT Factor Analysis Name CAS Number Result Detection Units No. Limit 0.476 mg/kg 06955 Lead 7439-92-1 189.

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

Analysis Dilution CAT Trial# Date and Time No. Analysis Name Method Analyst Factor 06955 SW-846 6010B 02/12/2008 22:58 Thomas F McLamb Sr Lead 02/11/2008 20:25 Annamaria Stipkovits SW-846 3050B SW SW846 ICP Digest 05708



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Lancaster Laboratories Sample No. SW5275487

Group No. 1076648

SSB9-S-3-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB9 Collected:02/06/2008 10:41 by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT No. Analysis Name CAS Number

As Received Result Method Detection Limit 0.480

Units

Dilution Factor

Dilution

06955

Lead

7439-92-1

15.0

mq/kq

4

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

06955 Lead SW-846 6010B

05708 SW SW846 ICP Digest SW-846 3050B

 Analysis

 Trial#
 Date and Time

 6010B
 1
 02/12/2008 23:02

 3050B
 1
 02/11/2008 20:25

Analyst Factor
Thomas F McLamb Sr 1
Annamaria Stipkovits 1



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Lancaster Laboratories Sample No. SW5275488

Group No. 1076648

SSB9-S-5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB9

Collected: 02/06/2008 10:47

by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received As Received Dilution CAT Analysis Name CAS Number Result Detection Units Factor No. Limit mg/kg 06955 Lead 7439-92-1 6.24 0.476

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.

CAT			Analysis		Dilution
No.	Analysis Name	Method	Trial# Date and Time	e Analyst	Factor
06955	Lead	SW-846 6010B	1 02/12/2008 23	:06 Thomas F McLamb Sr	1 .
05708	SW SW846 ICP Digest	SW-846 3050B	1 02/11/2008 20	:25 Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275489

Group No. 1076648

SSB9-S-9-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB9

Collected: 02/06/2008 10:57

Dy II

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Dilution As Received CAT Analysis Name CAS Number Result Detection Units Factor No. Limit mg/kg 069,55 7439-92-1 6.36 0.480

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 Dilution Analysis CAT Trial# Date and Time Analyst Factor No. Analysis Name SW-846 6010B 02/12/2008 23:09 Thomas F McLamb Sr 06955 Lead Annamaria Stipkovits 02/11/2008 20:25 05708 SW SW846 ICP Digest SW-846 3050B



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Lancaster Laboratories Sample No. SW5275490

Group No. 1076648

SSB10-S-3-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB10

Collected:02/06/2008 12:33

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11 Discard: 03/16/2008

CAT

No.

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

As Received Method Analysis Name

CAS Number Result

Detection Limit

Dilution Units Factor

06955 7439-92-1 67.2 0.490 mg/kg

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.

		<u> </u>	Ly CIIIC.			
CAT	Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/12/2008 22:19	Thomas F McLamb Sr	1
05708	SW SW846 TCP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1 .



Units

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Page 1 of 1

Dilution

Factor

Lancaster Laboratories Sample No. SW5275491

Group No. 1076648

SSB10-S-5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB10

Collected: 02/06/2008 12:38

Account Number: 10880

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11 Discard: 03/16/2008

ChevronTexaco 6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

As Received Method CAT CAS Number Result Detection

Analysis Name No. Limit 0.485 mg/kg

06955 Lead 7439-92-1 5.00

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.

			TOO O T	$\alpha \circ \circ \perp$	V			
CAT				-		Analysis		Dilution
No.	Analysis Name	Metho	od		Trial#	Date and Time	Analyst	<b>Factor</b>
06955	Lead	SW-84	46 6010B		1	02/12/2008 23:13	Thomas F McLamb Sr	1
05708	SW SW846 TCP Digest	SW-84	46 3050B		1	02/11/2008 20:25	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275492

Group No. 1076648

SSB10-S-9-080206 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB10

Collected: 02/06/2008 12:56

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

			× .	We vecelved		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06955	Lead	7439-92-1	9.34	0.485	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.

		Laborator	ry Chro	nicle		
CAT			<b>-</b>	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/12/2008 23:16	Thomas F McLamb Sr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275493

Group No. 1076648

SSB5-S-1.5-080206 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB5 Collected:02/06/2008 09:40 by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

As Received Dilution Method As Received CAT Units Factor CAS Number Result Detection No. Analysis Name Limit 7439-92-1 18.2 0.480 mg/kg 06955 Lead

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	Chro	nicle		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/12/2008 23:20	Thomas F McLamb Sr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275494

Group No. 1076648

SSB5-S-3-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB5 Collected:02/06/2008 09:50 by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Method Dilution As Received CAT Detection Units Factor CAS Number Result Analysis Name No. 7439-92-1 0.476 mg/kg 06955 Lead

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 Dilution Analysis CAT Trial# Date and Time Factor Method No. Analysis Name 02/12/2008 23:23 Thomas F McLamb Sr 06955 Lead SW-846 6010B 1 SW-846 3050B 02/11/2008 20:25 Annamaria Stipkovits SW SW846 ICP Digest 05708



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Lancaster Laboratories Sample No.

Group No. 1076648

SSB5-S-5.5-080206 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB5

Collected: 02/06/2008 09:57

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT No.

Analysis Name

As Received

Method

Dilution

CAS Number

Result

Detection Limit

Units

Factor

06955

Lead

7439-92-1

117.

0.485

mg/kg

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

Lead

06955 SW SW846 ICP Digest 05708

Method

SW-846 6010B SW-846 3050B Trial#

Date and Time 02/12/2008 23:27

Analysis

02/11/2008 20:25

Analyst Thomas F McLamb Sr

Factor 1

Dilution

Annamaria Stipkovits



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Lancaster Laboratories Sample No. SW5275496

Group No. 1076648

SSB5-S-7-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB5

Collected:02/06/2008 10:25

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT No.

Analysis Name

As Received

Result

Method Detection Dilution

06955

Lead

CAS Number 7439-92-1

63.5

Limit 0.476

Units mg/kg Factor

State of California Lab Certification No. 2116

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

Laboratory Chronicle

CAT

05708

No. Analysis Name 06955

Lead SW SW846 ICP Digest Method SW-846 6010B SW-846 3050B

Analysis Trial# Date and Time

02/12/2008 23:38 02/11/2008 20:25 Analyst Thomas F McLamb Sr

Factor

Dilution

Annamaria Stipkovits



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Lancaster Laboratories Sample No. SW5275497

Group No. 1076648

SSB6-S-1.5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB6

Collected: 02/06/2008 10:40

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received As Received Method Dilution CAT Factor Analysis Name CAS Number Result Detection Units No. Limit mg/kg 0.480 06955 Lead 7439-92-1 14.3

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.

CAT		•	-	Analysis	•	Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1.	02/12/2008 23:41	Thomas F McLamb Sr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275498

Group No. 1076648

SSB6-S-3-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB6

Collected:02/06/2008 10:55

by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received Dilution Method As Received CAT Result Detection Units Factor CAS Number Analysis Name No. Limit 06955 7439-92-1 98.9 0.485 mg/kg Lead

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.

c	'AT				Analysis		Dilution
N	To.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
(	6955	Lead	SW-846 6010B	1	02/12/2008 23:45	Thomas F McLamb Sr	1
. (	5708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275499

Group No. 1076648

SSB3-S-3-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB3

Collected: 02/06/2008 12:29

Account Number: 10880

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12

Discard: 03/16/2008

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT

Analysis Name

As Received

Method Result Detection Dilution

No.

CAS Number

Limit

Units

Factor

06955

7439-92-1

52.4

0.471

mg/kg

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.

CAT				Analysis		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
06955	Lead	SW-846 6010B	1	02/12/2008 23:49	Thomas F McLamb Sr	1 .	
05708	SW SW846 ICP Digest	SW-846 3050B	1 '	02/11/2008 20:25	Annamaria Stipkovits	.1	



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Lancaster Laboratories Sample No. SW5275500

Group No. 1076648

SSB3-S-5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB3

Collected: 02/06/2008 13:15

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT

Analysis Name No.

As Received

Result

Method Detection Dilution

CAS Number

Limit

Units

Factor

06955

Lead

7439-92-1 42.2

0.480

mg/kg

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. 06955 Analysis Name

Lead

05708 SW SW846 ICP Digest Method

SW-846 6010B

SW-846 3050B

Trial#

Date and Time 02/12/2008 23:52 02/11/2008 20:25

Analysis

Analyst

Factor Thomas F McLamb Sr

Annamaria Stipkovits

Dilution



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Lancaster Laboratories Sample No. SW5275501

Group No. 1076648

SSB11-S-1.5-080206 Grab Soil

Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB11

Collected: 02/06/2008 13:30

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12 Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT

As Received

Method Detection Dilution

No.

Analysis Name

CAS Number

Result

Units

Factor

06955

7439-92-1

9.67

0.480

mg/kg

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.

CAT		•*		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/12/2008 23:56	Thomas F McLamb Sr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW5275502

Group No. 1076648

SSB11-S-3-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB11

Collected: 02/06/2008 13:45

by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received

CAT No.

Analysis Name

As Received

Method

-

Dilution

------

CAS Number

Result

Detection Limit Units

Factor

06955

Lead

7439-92-1 4.86

0.480

mg/kg

. .

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.

CAT		_ · · ·	Analysis		Dilution
No.	Analysis Name	Method	Trial# Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1 02/12/2008 23:59	Thomas F McLamb Sr	1
 05708	SW SW846 ICP Digest	SW-846 3050B	1 02/11/2008 20:25	Annamaria Stipkovits	. <b>1</b> ,



mg/kg

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Lancaster Laboratories Sample No. SW5275503

Group No. 1076648

SSB11-S-5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB11

Collected: 02/06/2008 13:50

by IH

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12

Discard: 03/16/2008

06955

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

0.476

CAT As Received Method Dilution
No. Analysis Name CAS Number Result Detection Units Factor
Limit

3.90

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.

7439-92-1

CAT			Analysis		Dilution		
No.	Analysis Name	Method	Trial# Date and Time	Analyst	Factor		
06955	Lead	SW-846 6010B	1 02/14/2008 04:45	Choon Y Tian	1		
05708	SW SW846 ICP Digest	SW-846 3050B	1 02/13/2008 20:10	Annamaria Stipkovits	1		



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Page 1 of 1

Dilution

Factor

Lancaster Laboratories Sample No. SW5275504

Group No. 1076648

SSB11-S-8.5-080206 Grab Soil Facility# 307233 CETE

2259 First St-Livermore T0600196622 SSB11

Collected: 02/06/2008 14:06

Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:12

Discard: 03/16/2008

Account Number: 10880

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

As Received As Received Method CAT Detection Units Analysis Name CAS Number Result No.

Limit mg/kg 0.480 06955 Lead 7439-92-1 5.62

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.

CAT			Analysis										
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor							
06955	Lead	SW-846 6010B	. 1	02/14/2008 04:58	Choon Y Tian	1							
05700	CW CWOAS TCD Digost	SW-846 3050B	1	02/13/2008 20:10	Annamaria Stipkovits	1							



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#### Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1076648

Reported: 02/14/08 at 01:12 PM

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	Blànk <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: 080425708001 Lead	Sample no	umber(s): 0.490	5275482 mg/kg	: 101		90-110	٠.	
Batch number: 080425708002 Lead	Sample n N.D.	umber(s): 0.490	5275483-527 mg/kg	75502 103		90-110		
Batch number: 080445708001 Lead	Sample n	umber(s): 0.490	5275503-527 mg/kg	7550 <b>4</b> 96		90-110		

#### 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 <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP RPD	Dup RPD <u>Max</u>
Batch number: 080425708001 Lead	Sample 99	number(s) 100	: 5275482 75-125	UNSPK:	P2754 20	80 BKG: P2 7.54	275480 7.79	3	20
Batch number: 080425708002 Lead	Sample 149 (2)	number(s) 117 (2)		-527550 5	2 UNSF	PK: 5275490 67.2	D BKG: 52754 125.	60*	20
Batch number: 080445708001 Lead	Sample 118 (2)		: 5275503 75-125		04 UNSE 20	PK: P263598 236.	B BKG: P2635 267.	598 12	20

#### \*- Outside of specification

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

# Chevron California Region Analysis Request/Chain of Custody

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

3460 Rev. 10/04/01

## Chevron California Region Analysis Request/Chain of Custody

Lancaste Where quality is	r Labor s a science	atories	$\bigcirc$	∝# .0708	-04	-3	Α	\cct. #	<u> </u>	088	0	S	F	or L	anca	ster	Labora 48	itories 2 - S	use o	only	2 scr#: _1	4189 0766	31 48
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# Lancaster Laboratories Explanation of Symbols and Abbreviations

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

N.D. TNTC IU umhos/cm C Cal meq g ug	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s)	BMQL MPN CP Units NTU F Ib. kg mg	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s)
ug	microgram(s) milliliter(s) cubic meter(s)	l	liter(s)
ml		ul	microliter(s)
m3		fib >5 um/ml	fibers greater than 5 microns in length per

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight 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:

X,Y,Z

#### **Organic Qualifiers**

Defined in case narrative

#### **Inorganic Qualifiers**

· ml

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥ldl<=""></crdl,>
В	Analyte was also detected in the blank	E	Estimated due to interference
Ċ	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
Ε	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	Ų	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	. +	Correlation coefficient for MSA < 0.995
U	Compound was not detected		

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

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

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# Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- · Results; and
- Chain of Custody (copy).



#### **WORK ORDER #:** 0803250A

Work Order Summary

CLIENT:

Ms. Charlotte Evans

BILL TO:

Ms, Charlotte Evans

Conestoga-Rovers Associates (CRA)

Conestoga-Rovers Associates (CRA) 5900 Hollis Street

5900 Hollis Street

Suite A

Suite A Emeryville, CA 94608

Emeryville, CA 94608

307233

PHONE: FAX:

510-420-3351

**P.O.** #

510-420-9170

PROJECT#

DATE RECEIVED:

03/12/2008

CONTACT:

Kyle Vagadori

DATE COMPLETED:

03/17/2008

			RECEIPT	FINAL
FRACTION #	NAME	TEST	VAC./PRES.	<b>PRESSURE</b>
01A	VP1-5	Modified TO-15	0.0 "Hg	15 psi
01AA	VP1-5 Lab Duplicate	Modified TO-15	0.0 "Hg	15 psi
02A	VP1-10	Modified TO-15	5.0 "Hg	15 psi
03A	VP2-5	Modified TO-15	6.0 "Hg	15 psi
03A 04A	VP2-5 Duplicate	Modified TO-15	6.0 "Hg	15 psi
05A	VP2-10	Modified TO-15	5.5 "Hg	15 psi
06A	VP3-5	Modified TO-15	6.0 "Hg	15 psi
07A	VP3-10	Modified TO-15	5.5 "Hg	15 psi
07A 08A	Lab Blank	Modified TO-15	NA	NA
09A	CCV	Modified TO-15	NA	NA
10A	LCS	Modified TO-15	NA	NA

CERTIFIED BY:

Sinda d. Fruman

03/17/08 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



# LABORATORY NARRATIVE Modified TO-15 Conestoga-Rovers Associates (CRA) Workorder# 0803250A

Seven 1 Liter Summa Canister (100% Certified) samples were received on March 12, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	TO-15	ATL Modifications		
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;</p flag and narrate outliers		
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request		
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases		

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

## **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).



- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP1-5

Lab ID#: 0803250A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.0	4.7	3.8	18
Ethyl Benzene	1.0	1.3	4.4	5.6

Client Sample ID: VP1-5 Lab Duplicate

Lab ID#: 0803250A-01AA

Dab Ibii. Goodaaa. Tarii.	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Toluene	1.0	3.5	3.8	13

Client Sample ID: VP1-10

Lab ID#: 0803250A-02A

No Detections Were Found.

Client Sample ID: VP2-5

Lab ID#: 0803250A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.3	5.1	4.8	19
Ethyl Benzene	1.3	1.5	5.5	6.4
m,p-Xylene	1.3	7.2	5.5	31
o-Xylene	1.3	4.0	5.5	17

Client Sample ID: VP2-5 Duplicate

Lab ID#: 0803250A-04A

No Detections Were Found.

Client Sample ID: VP2-10

Lab ID#: 0803250A-05A

Compound	Rpt. Limit Amount (ppbv) (ppbv)		Rpt. Limit (uG/m3)	Amount (uG/m3)	
Toluene	1.2	7.6	4.6	29	
Ethyl Benzene	1.2	2.2	5.4	9.7	
m,p-Xylene	1.2	1.6	5.4	6.9	



# Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP2-10

Lab ID#: 0803250A-05A

o-Xylene

1.2

2.6

5.4

11

Client Sample ID: VP3-5

Lab ID#: 0803250A-06A

Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
m.p-Xylene	1.3	1.4	5.5	6.3

Client Sample ID: VP3-10

Lab ID#: 0803250A-07A

No Detections Were Found.



Client Sample ID: VP1-5 Lab ID#: 0803250A-01A

MODIFIED EPA METHOD TO	0-15	GC/MS	FULL SCAN	
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File Name: Dil. Factor:	5031417 2.02		Date of Collection: 3/10/08 Date of Analysis: 3/14/08 08:49 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected	
tert-Amyl methyl ether	4.0	Not Detected	17	Not Detected	
tert-Butyl alcohol	10	Not Detected	31	Not Detected	
Isopropyl ether	4.0	Not Detected	17	Not Detected	
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected	
Benzene	1.0	Not Detected	3.2	Not Detected	
Toluene	1.0	4.7	3.8	18	
Ethyl Benzene	1.0	1.3	4.4	5.6	
m,p-Xylene	1.0	Not Detected	4.4	Not Detected	
o-Xylene	1.0	Not Detected	4.4	Not Detected	
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected	
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected	
Naphthalene	4.0	Not Detected	21	Not Detected	
Container Type: 1 Liter Summ	a Canister (100% Certified)			Method	
Surrogates		%Recovery		Limits	
Toluene-d8		89		70-130	
1,2-Dichloroethane-d4		<b>7</b> 7		70-130	
4-Bromofluorobenzene		91		70-130	



## Client Sample ID: VP1-5 Lab Duplicate

Lab ID#: 0803250A-01AA

MODIFIED	EPA	METHOD	TO-15	GC/MS FU	LL SCAN

File Name; DII. Factor:	5031418 2.02		Date of Collection: Date of Analysis:	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected
ert-Amyl methyl ether	4.0	Not Detected	17	Not Detected
ert-Butyl alcohol	10	Not Detected	31	Not Detected
Isopropyl ether	4.0	Not Detected		Not Detected
Ethyl-tert-butyl ether	4.0	Not Detected	17	Not Detected
Benzene	1.0	Not Detected	3.2	Not Detected
Toluene	1.0	3.5	3.8	. 13
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
Naphthalene	4.0	Not Detected	21	Not Detected
Container Type: 1 Liter Summa	- Canister /100% Certifie	d)		
Surrogates	d Camotor (100% Corumo	%Recovery		Method Limits
Toluene-d8		94		70-130
		82		70-130
1,2-Dichloroethane-d4 4-Bromofluorobenzene		88		70-130



Client Sample ID: VP1-10 Lab ID#: 0803250A-02A

MODIFIED	EPA	METHOD	TO-15	GC/MS	FULL SCAN

File Name: Dil. Factor:	5031419 2.42		Date of Collection: Date of Analysis: 3	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
ert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
ert-Butyl alcohol	12	Not Detected	37	Not Detected
sopropyl ether	4.8	Not Detected	20	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
Container Type: 1 Liter Summa	Canister (100% Certified	d) %Recovery		Method Limits
Toluene-d8		91		70-130
		82		70-130
1,2-Dichloroethane-d4 4-Bromofluorobenzene		92		70-130



Client Sample ID: VP2-5 Lab ID#: 0803250A-03A

MODIFIED EPA MET	HOD TO-1	5 GC/MS	FULL SCAN
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ile Name: Dil. Factor:	5031420 2.53			Date of Collection: 3/10/08 Date of Analysis: 3/14/08 10:27 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)		
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected		
tert-Amyl methyl ether	5.1	Not Detected	21	Not Detected		
tert-Butyl alcohol	13	Not Detected	38	Not Detected		
Isopropyl ether	5.1	Not Detected	21	Not Detected		
Ethyl-tert-butyl ether	5.1	Not Detected	21	Not Detected		
Benzene	1.3	Not Detected	4.0	Not Detected		
Toluene	1.3	5.1	4.8	19		
Ethyl Benzene	1.3	1.5	5.5	6.4		
m,p-Xylene	1.3	7.2	5.5	31		
o-Xylene	1.3	4.0	5.5	17		
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected		
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected		
Naphthalene	5.1	Not Detected	26	Not Detected		
Container Type: 1 Liter Summa Ca	nister (100% Certifie	(b		4		
				Method		
Surrogates		%Recovery		Limits		
Toluene-d8		93		70-130		
1,2-Dichloroethane-d4		80		70-130		
4-Bromofluorobenzene		93		70-130		



# Client Sample ID: VP2-5 Duplicate

Lab ID#: 0803250A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN					
File Name: Dil. Factor:	5031421 2.53		Date of Collection: 3/10/08 Date of Analysis: 3/14/08 11:00 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected	
ert-Amyl methyl ether	5.1	Not Detected	21	Not Detected	
tert-Butyl alcohol	13	Not Detected	38	Not Detected	
Isopropyl ether	5.1	Not Detected	21	Not Detected	
Ethyl-tert-butyl ether	5.1	Not Detected	21	Not Detected	
Benzene	1.3	Not Detected	4.0	Not Detected	
Toluene	1.3	Not Detected	4.8	Not Detected	
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected	
m,p-Xylene	1.3	Not Detected	5.5	Not Detected	
o-Xylene	1.3	Not Detected	5.5	Not Detected	
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected	
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected	
Naphthalene	5.1	Not Detected	26	Not Detected	
Container Type: 1 Liter Summa Ca Surrogates	nister (100% Certifie	d) %Recovery		Method Limits	
		90		70-130	
Toluene-d8		79		70-130	
1,2-Dichloroethane-d4		92		70-130	



Client Sample ID: VP2-10 Lab ID#: 0803250A-05A

MODIFIED FPA	METHOD TO-15	GC/MS FULL SCAN

File Name: Dil. Factor:	5031422 2.47		Date of Collection: 3/10/08 Date of Analysis: 3/14/08 11:32 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected	
tert-Amyl methyl ether	4.9	Not Detected	21	Not Detected	
tert-Butyl alcohol	12	Not Detected	37	Not Detected	
Isopropyl ether	4.9	Not Detected	21	Not Detected	
Ethyl-tert-butyl ether	4.9	Not Detected	21	Not Detected	
Benzene	1.2	Not Detected	3.9	Not Detected	
Toluene	1.2	7.6	4.6	. 29	
Ethyl Benzene	1.2	2.2	5.4	9.7	
m,p-Xylene	1.2	1.6	5.4	6.9	
o-Xylene	1.2	2.6	5.4	- 11.	
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected	
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected	
Naphthalene	4.9	Not Detected	26	Not Detected	
Container Type: 1 Liter Summa	Canister (100% Certifie	d)		Method	
Surrogates		%Recovery		Limits	
Toluene-d8		89		70-130	
1,2-Dichloroethane-d4		78		70-130	
4-Bromofluorobenzene		93		70-130	



Client Sample ID: VP3-5 Lab ID#: 0803250A-06A

MODIFIED EPA METHOD TO-15 GC/MS F	$\mathbf{ULL}$	SCAN	
-----------------------------------	----------------	------	--

File Name: DII, Factor:	5031423 2,53		Date of Collection: Date of Analysis: 3	and the second s
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
tert-Amyl methyl ether	5.1	Not Detected	21	Not Detected
tert-Butyl alcohol	13	Not Detected	38	Not Detected
Isopropyl ether	5.1	Not Detected	21	Not Detected
Ethyl-tert-butyl ether	5.1	Not Detected	21	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	1.4	5.5	6.3
o-Xylene	1.3	Not Detected	5.5	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Naphthalene	5.1	Not Detected	26	Not Detected
Container Type: 1 Liter Summa	Canister (100% Certifie	d) %Recovery		Method Limits
		90		70-130
Toluene-d8		81		70-130
<ul><li>1,2-Dichloroethane-d4</li><li>4-Bromofluorobenzene</li></ul>		89		70-130



Client Sample ID: VP3-10 Lab ID#: 0803250A-07A

MODIFIED	EPA	METHOD	TO-15	GC/MS	FULL	SCAN

ile Name: DII, Factor:	5031424 2.47			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
ert-Amyl methyl ether	4.9	Not Detected	21	Not Detected
ert-Butyl alcohol	12	Not Detected	37	Not Detected
sopropyl ether	4.9	Not Detected	21	Not Detected
Ethyl-tert-butyl ether	4.9	Not Detected	21	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
n,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Naphthalene	4.9	Not Detected	26	Not Detected
Container Type: 1 Liter Summa Surrogates	a Canister (100% Certifie	d) %Recovery		Method Limits
Toluene-d8		92		70-130
		82		70-130
1,2-Dichloroethane-d4 4-Bromofluorobenzene		91		70-130



### Client Sample ID: Lab Blank Lab ID#: 0803250A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031405 1.00		Date of Collection: NA	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
tert-Butyl alcohol	5.0	Not Detected	15	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
Container Type: NA - Not Applic Surrogates	able	%Recovery		Method Limits
Toluene-d8		88		70-130
		80		70-130
1,2-Dichloroethane-d4 4-Bromofluorobenzene		92		70-130



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## Client Sample ID: CCV Lab ID#: 0803250A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dll. Factor:	5031402 1.00		of Collection: NA of Analysis: 3/14/08 09:51 AM
Compound			%Recovery
Methyl tert-butyl ether			121
tert-Amyl methyl ether			121
tert-Butyl alcohol			98
Isopropyl ether			102
Ethyl-tert-butyl ether			125
Benzene			126
Toluene			115
Ethyl Benzene			119
m,p-Xylene			117
o-Xylene			118
1,2-Dichloroethane			95
1,2-Dibromoethane (EDB)			119
Naphthalene	en en en en en en en en en en en en en e		128
Container Type: NA - Not Applie	cable		Method
		0/ December	Limits
Surrogates		%Recovery	
Toluene-d8		96	70-130
1,2-Dichloroethane-d4		80	70-130
4-Bromofluorobenzene		96	70-130



## Client Sample ID: LCS Lab ID#: 0803250A-10A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 5031403 Date of Collection: NA
File Name: 5031403 Date of Collection: NA
Dill Factor: 1.00 Date of Analysis: 3/14/08 10:20 AM
DII. Factor: 1.00 Date of Analysis: 3/14/08 10:20 AM

Compound	%Recovery
Methyl tert-butyl ether	99
tert-Amyl methyl ether	Not Spiked
tert-Butyl alcohol	Not Spiked
Isopropyl ether	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
Benzene	112
Toluene	112
Ethyl Benzene	105
	104
m,p-Xylene	107
o-Xylene	86
1,2-Dichloroethane	102
1,2-Dibromoethane (EDB)	117
Naphthalene	,

Surrogates		%F	Recovery	· ·	Limits
Toluene-d8			98		70-130
1.2-Dichloroethane-d4			82		70-130
4-Bromofluorobenzene			98		70-130



#### CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the

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Page collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922 Project Manager Charlotte Evans Lab Use Only **Turn Around** Project Info: Time: Pressurized by: Collected by: (Print and Sign) Charlotte Evans CEMMO □ Normal Date: Email Cevanse craworld.com Company CRA Project # 301233 X Rush city Emonuille State CA Zip 941018 Pressurization Gas: Project Name\_307233 510-420-9171 N<sub>2</sub> He 510-420-3351 Canister Pressure/Vacuum Date Time **Analyses Requested** of Collection of Collection Final Final Initial Receipt Field Sample I.D. (Location) Can # Lab I.D. 5 12:26 For a -5 12:55 TPHA 55 30 03/10/08 Duplicate -29 5 EDB, naghthalens 5 -29 Notes: Date/Time Received by: (signature) Date/Time Relinquished by: (signature) 18:10 10/08 Date/Time Received by: (signature) Relinquished by: (signature) Date/Time Date/Time Received by: (signature) Relinquished by: (signature) Date/Time Work Order #. **Custody Seals Intact?** Temp (°C) Condition Air Bill # Shipper Name Lab 0803250 Yes No. None M Use. Fodox Only



# Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- · Work order Summary;
- · Laboratory Narrative;
- · Results; and
- Chain of Custody (copy).

#### **WORK ORDER #: 0803250C**

Work Order Summary

CLIENT:

Ms. Charlotte Evans

BILL TO:

Ms. Charlotte Evans

Conestoga-Rovers Associates (CRA)

LCS

Conestoga-Rovers Associates (CRA)

5900 Hollis Street

5900 Hollis Street

Suite A

Suite A

Emeryville, CA 94608

Emeryville, CA 94608

PHONE:

510-420-3351

P.O. #

FAX:

510-420-9170

PROJECT # 307233

Modified ASTM D-1946

DATE RECEIVED:
DATE COMPLETED:

03/12/2008 03/17/2008

CONTACT:

Kyle Vagadori

40			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	<u>PRESSURE</u>
01A	VP1-5	Modified ASTM D-1946	0.0 "Hg	15 psi
01AA	VP1-5 Lab Duplicate	Modified ASTM D-1946	0.0 "Hg	15 psi
02A	VP1-10	Modified ASTM D-1946	5.0 "Hg	15 psi
03A	VP2-5	Modified ASTM D-1946	6.0 "Hg	15 psi
04A	VP2-5 Duplicate	Modified ASTM D-1946	6.0 "Hg	15 psi
05A	VP2-10	Modified ASTM D-1946	5.5 "Hg	15 psi
06A	VP3-5	Modified ASTM D-1946	6,0 "Hg	15 psi
07A	VP3-10	Modified ASTM D-1946	5.5 "Hg	15 psi
08A	Lab Blank	Modified ASTM D-1946	NA	NA
08B	Lab Blank	Modified ASTM D-1946	NA	NA
08C	Lab Blank	Modified ASTM D-1946	NA	NA
08D	Lab Blank	Modified ASTM D-1946	NA	NA
09A	LCS	Modified ASTM D-1946	NA.	NA

CERTIFIED BY:

09B

Sinda d. Fruman

DATE:  $\frac{03/17/08}{}$ 

NA

NA

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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# LABORATORY NARRATIVE Modified ASTM D-1946 Conestoga-Rovers Associates (CRA) Workorder# 0803250C

Seven 1 Liter Summa Canister (100% Certified) samples were received on March 12, 2008. The laboratory performed analysis via Modified ASTM Method D-1946 for fixed gases in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project

requirements may over-ride the ATL modifications.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either du to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections 5 X's the RL.



#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

There were no analytical discrepancies.

#### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B Compound present in laboratory blank greater than reporting limit.
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Carbon Dioxide

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# **Summary of Detected Compounds** NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VP1-5		
Lab ID#: 0803250C-01A	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.20	38
Carbon Dioxide	0.020	0.36
Helium	0.10	0.24
Honum		
Client Sample ID: VP1-5 Lab Duplicate		
Lab ID#: 0803250C-01AA		· · · · · · · · · · · · · · · · · · ·
	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.41	38
Carbon Dioxide	0.041	0.36
Helium	0.20	0.20
Client Sample ID: VP1-10		
Lab ID#: 0803250C-02A		<b>8 4</b>
	Rpt. Limit	Amount (%)
Compound	(%)	20
Oxygen	0.24	1.0
Carbon Dioxide	0.024	1.0
Client Sample ID: VP2-5		
Lab ID#: 0803250C-03A		
- Law April Court of the Court	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.25	17
Carbon Dioxide	0.025	2.0
Client Sample ID: VP2-5 Duplicate		
Lab ID#: 0803250C-04A	Rpt. Limit	Amount
Compound	(%)	(%)
<del></del>	0.25	17
Oxygen	0.25	2.0

0.025



# Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VP2-10		
Lab ID#: 0803250C-05A	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.25	18
Carbon Dioxide	0.025	1.6
Client Sample ID: VP3-5		
Lab ID#: 0803250C-06A	Rpt. Limit (%)	Amount (%)
Compound		17
Oxygen Carbon Dioxide	0.25 0.025	2.3
Client Sample ID: VP3-10		
Lab ID#: 0803250C-07A		
	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.25	18
Carbon Dioxide	0.025	2.2



Client Sample ID: VP1-5 Lab ID#: 0803250C-01A

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031729b 2.02		Date of Collection: 3/1 Date of Analysis: 3/17	
Compound		Rpt. Limit (%)		Amount (%)
Dxygen	A.	0.20		38
Carbon Dioxide		0.020		0.36
Helium		0.10		0.24



#### Client Sample ID: VP1-5 Lab Duplicate

Lab ID#: 0803250C-01AA

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031730b 4.08		Sollection: 3/10/08 Analysis: 3/17/08 03:27 PM
Compound		Rpt. Limit (%)	Amount (%)
		0.41	38
Oxygen Carbon Dioxide		0.041	0.36
Helium		0.20	0.20



Client Sample ID: VP1-10 Lab ID#: 0803250C-02A

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031424b 2.42	Date of Collection: 3/10/08  Date of Analysis: 3/14/08 03:43 PM
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	20
Carbon Dioxide	0.024	1.0
Helium	0.12	Not Detected



Client Sample ID: VP2-5 Lab ID#: 0803250C-03A

## NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031422b 2.53	Date of Collection: 3/10/08  Date of Analysis: 3/14/08	
Compound		Rpt. Limit (%)	Amount (%)
Dxygen		0.25	17
Carbon Dioxide		0.025	2.0
Helium		0.13	Not Detected



#### Client Sample ID: VP2-5 Duplicate

Lab ID#: 0803250C-04A

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031423b 2.53		Date of Collection: 3/10/08 Date of Analysis: 3/14/08 03:21 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.25	17
Carbon Dioxide		0.025	2.0
Helium		0.13	Not Detected



Client Sample ID: VP2-10 Lab ID#: 0803250C-05A

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9031421k	•	llection: 3/10/08 alysis: 3/14/08 02:32 PM	
Compound	Rpt. Limit (%)	Amount (%)	
Dxygen	0.25	18	
Carbon Dioxide	0.025	1.6	
Helium	0.12	Not Detected	



Client Sample ID: VP3-5 Lab ID#: 0803250C-06A

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031420b 2.53	00011200		Date of Collection: 3/10/08 Date of Analysis: 3/14/08 02:11 PM	
Compound		Rpt. Limit (%)		Amount (%)	
Oxygen		0.25		17	
Carbon Dioxide		0.025		2.3	
Helium		0.13		Not Detected	



Client Sample ID: VP3-10 Lab ID#: 0803250C-07A

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031419b 2.47		
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.25	18
Carbon Dioxide	•	0.025	2.2
Helium		0.12	Not Detected



#### Client Sample ID: Lab Blank Lab ID#: 0803250C-08A

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9 DII, Factor:	0031404b Date of Collec 1.00 Date of Analy	etion: NA sis: 3/14/08 05:00 AM
Compound	Rpt. Limit (%)	Amount (%)
Oxygen Carbon Dioxide	0.10 0.010	Not Detected Not Detected



#### Client Sample ID: Lab Blank Lab ID#: 0803250C-08B

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:		ollection: NA nalysis: 3/14/08 04:02 AM
	Rpt. Limit	Amount
Compound	(%)	(%)
Helium	0.050	Not Detected



# Client Sample ID: Lab Blank

Lab ID#: 0803250C-08C

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 903 Dil. Factor:		ate of Collection: NA ate of Analysis: 3/17/08 02:37 PM	
Compound	Rpt. Limit (%)	Amount (%)	
Oxygen Carbon Dioxide	0.10 0.010	Not Detected Not Detected	



## Client Sample ID: Lab Blank

Lab ID#: 0803250C-08D

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031727b 1.00		Date of Collection: NA Date of Analysis: 3/17/08 02:13 PM
		Rpt. Limit	Amount
Compound		(%)	(%)
Helium		0.050	Not Detected

Container Type: NA - Not Applicable



#### Client Sample ID: LCS Lab ID#: 0803250C-09A

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9031427h Date of Collection; NA
File Name: 9031427b Date of Collection: NA
File Name: 9031427b Date of Collection, NA
Dil Factor: 1 00 Date of Analysis: 3/14/08 05:08 PM
Dil Factor: 1.00 Date of Analysis: 3/14/08 U5:08 PM
Dil. Factor: 1.00 Date of Analysis: 3/14/08 US:06 PW

Compound	%Recovery
Oxygen	100
Carbon Dioxide	100
Helium	108

Container Type: NA - Not Applicable



#### Client Sample ID: LCS Lab ID#: 0803250C-09B

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9031731b Date of Collection: NA Dil. Factor: 1.00 Date of Analysis: 3/17/08 03:5	3 PM

Compound	%Recovery
Oxygen	100
Carbon Dioxide	100
Helium	106

Container Type: NA - Not Applicable



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CHAIN-OF-CUSTODY RECORD Page collection, handling, or shipping of samples. D.O.T. Hotline (900) 467-492E Project Manager Charlotte Evans Lab Use Only Turn Around Project Info: Pressurized by: Time: Collected by: (Print and Sign) Char 10 HC Evans (HONO □ Normal Date: Emai Cevansecration id. com Company CRA Project # 301233 💆 Rush Pressurization Gas: Address 5200 Hollis St. \_\_\_ City Emonyville, State (A zip 4tion)8 Project Name 30 1233  $N_z \ll \text{He}$ Fax 510-420-9170 Phono 510-420-3351 Canister Pressure/Vacuum Date Time **Analyses Requested** ·Final of Collection of Collection Initial F.nal Receipt Can # Field Sample I.D. (Location) Lab I.D. 29.5 12:26 -5 12:55 WITO-3 Salatisa nalio ing 55 -30 2-5 Duplicate -DCA EDB, naphthalene -29 Notes: Parceived by: (signature) Date/Time Relinquished by: (signature) Date/Time (8.10 0850 10008 ヘスーリーへ Received by: (signature) Date/Time Relinguished by: (signature) Date/filme Received by: (signature) Date/Time Relinquished by: (signature) Date/Time Custody Seals Intact? Work Order # Temp (°C) Condition Air Bill# Shipper Name Lab 0803250 None Yes No.1 Only



### Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- · Work order Summary;
- Laboratory Narrative;
- · Results; and
- · Chain of Custody (copy).



#### **WORK ORDER #:** 0803250B

Work Order Summary

CLIENT:

Ms. Charlotte Evans

BILL TO:

Ms. Charlotte Evans

Conestoga-Rovers Associates (CRA)

Conestoga-Rovers Associates (CRA)

5900 Hollis Street

5900 Hollis Street

Suite A

Suite A

307233

Emeryville, CA 94608

Emeryville, CA 94608

PHONE: FAX:

510-420-3351

P.O. #

510-420-9170

PROJECT#

DATE RECEIVED:

03/12/2008

CONTACT:

Kyle Vagadori

DATE COMPLETED:

03/17/2008

			RECEIPT	FINAL
FRACTION #	NAME	TEST	VAC./PRES.	PRESSURE
01A	VP1-5	Modified TO-3	0.0 "Hg	15 psi
02A	VP1-10	Modified TO-3	5.0 "Hg	15 psi
03A	VP2-5	Modified TO-3	6.0 "Hg	15 psi
04A	VP2-5 Duplicate	Modified TO-3	6.0 "Hg	15 psi
05A	VP2-10	Modified TO-3	5.5 "Hg	15 psi
06A	VP3-5	Modified TO-3	6.0 "Hg	15 psi
07A	VP3-10	Modified TO-3	5.5 "Hg	15 psi
08A	Lab Blank	Modified TO-3	NA	NA
09A	LCS	Modified TO-3	NA	NA

CERTIFIED BY:

Sinda d. Fruma

03/17/08 DATE:

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

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## LABORATORY NARRATIVE Modified TO-3 Conestoga-Rovers Associates (CRA) Workorder# 0803250B

Seven 1 Liter Summa Canister (100% Certified) samples were received on March 12, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppbv result to ug/m3.

Method modifications taken to run these samples are summarized in the table below. Specific project

requirements may over-ride the ATL modifications.

Requirement	TO-3	ATL Modifications
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch = 20 samples</td
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

There were no analytical discrepancies.

#### **Definition of Data Qualifying Flags**

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit,



- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the detection limit.
- M Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



## **Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID**

Client Sample ID: VP1-5

Lab ID#: 0803250B-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	_
TPH (Gasoline Range)	50	230	210	940	*

Client Sample ID: VP1-10

Lab ID#: 0803250B-02A

No Detections Were Found.

Client Sample ID: VP2-5

Lab ID#: 0803250B-03A

Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
TPH (Gasoline Range)	63	120	260	500

Client Sample ID: VP2-5 Duplicate

Lab ID#: 0803250B-04A

No Detections Were Found.

Client Sample ID: VP2-10

Lab ID#: 0803250B-05A

Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
62	110	250	450	
		(ppbv) (ppbv)	(ppbv) (ppbv) (uG/m3)	

Client Sample ID: VP3-5

Lab ID#: 0803250B-06A

No Detections Were Found.

Client Sample ID: VP3-10

Lab ID#: 0803250B-07A

No Detections Were Found.



Client Sample ID: VP1-5

Lab ID#: 0803250B-01A

File Name: Dil. Factor:	6031416 2.02		Date of Collection: 3 Date of Analysis: 3/	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	50	230	210	940
Container Type: 1 Liter Summ	a Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		83	•	75-150



Client Sample ID: VP1-10 Lab ID#: 0803250B-02A

File Name: DII, Factor:	6031417 2.42		Date of Collection: Date of Analysis: 3	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	60	Not Detected	250	Not Detected
Container Type: 1 Liter Summ	a Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



Client Sample ID: VP2-5 Lab ID#: 0803250B-03A

lle Name: Dil, Factor:	6031418 2,53		Date of Collection: 3/10/08 Date of Analysis: 3/14/08 02:27 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	63	120	260	500
Container Type: 1 Liter Summa Surrogates	Canister (100% Certified)	%Recovery		Method Limits
Fluorobenzene (FID)		84		75-150



#### Client Sample ID: VP2-5 Duplicate

Lab ID#: 0803250B-04A

File Name: Dil. Factor;	6031419 2.53		Date of Collection: Date of Analysis: 3	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	63	Not Detected	260	Not Detected
Container Type: 1 Liter Summa (	Canister (100% Certified	%Recovery		Method Limits
Surrogates Fluorobenzene (FID)		84	<u> </u>	75-150



#### Client Sample ID: VP2-10

Lab ID#: 0803250B-05A

File Name: Dil. Factor:	6031420 2.47	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 03:29		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	62	110	250	450
Container Type: 1 Liter Summa Canister (100% Certified)				Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



Client Sample ID: VP3-5 Lab ID#: 0803250B-06A

File Name: Dil. Factor:	6031421 2.53		Date of Collection: Date of Analysis: 3	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	63	Not Detected	260	Not Detected
Container Type: 1 Liter Summa	a Canister (100% Certified	) %Recovery		Method Limits
Fluorobenzene (FID)		82		75-150



Client Sample ID: VP3-10 Lab ID#: 0803250B-07A

File Name: Dil. Factor:	6031422 2.47			Date of Collection: 3/10/08  Date of Analysis: 3/14/08 04:29 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
TPH (Gasoline Range)	62	Not Detected	250	Not Detected	
Container Type: 1 Liter Summ	a Canister (100% Certified)	%Recovery		Method Limits	
Fluorobenzene (FID)		84		75-150	



#### Client Sample ID: Lab Blank

Lab ID#: 0803250B-08A

File Name: Dil. Factor:	6031406 1.00		Date of Collection: NA Date of Analysis: 3/14/08 08:05 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	25	Not Detected	100	Not Detected
Container Type: NA - Not Applicable		N Danis and a		Method Limits
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		. 84		75-150



#### Client Sample ID: LCS Lab ID#: 0803250B-09A

File Name: Dil. Factor:	6031427 1.00		Date of Collection: Date of Analysis:	
Compound			· · · · · · · · · · · · · · · · · · ·	%Recovery
TPH (Gasoline Range)				90
Container Type: NA - Not Applic	able			Method
Surrogates		%Recovery	<u> </u>	Limits
Fluorobenzene (FID)		111		75-150

# OXICS LTD.

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Relinquishing signature on this document indicates that sample is being shipped in compliance with al applicable local, State, Federal, national, and International laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmloss, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the

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