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Alameda County Environmental Health Ian Robb Project Manager Marketing Business Unit Chevron Environmental Management Company 6111 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 543-2375 Fax (925) 543-2324 irobb@chevron.com

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

Re: Former Texaco Service Station No. 30-7233 2259 First Street Livermore, CA

I have reviewed the attached report dated March 5, 2009.

I agree with the conclusions and recommendations presented in the referenced report. This information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This workplan was prepared by Conestoga Rovers Associates, upon who 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,

111

lan Robb Project Manager

Attachment: Report



# SUBSURFACE INVESTIGATION REPORT

# FORMER TEXACO SERVICE STATION (CHEVRON SITE 30-7233), 2259 FIRST STREET, LIVERMORE, CALIFORNIA RO #2908

Prepared For: Mr. Jerry Wickham Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

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MARCH 5, 2009 Ref. no. 312264 (1)

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## 1.0 INTRODUCTION

## 1.1 <u>GENERAL</u>

Conestoga-Rovers & Associates (CRA) is submitting this *Subsurface Investigation Report* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. CRA conducted this investigation in response to Alameda County Environmental Health (ACEH) letters dated May 9 and August 22, 2008 (Appendix A). The objective of the investigation was to further delineate petroleum hydrocarbons vertically and horizontally beneath the site. CRA presented the results of a previous subsurface investigation in a March 27, 2008 *Subsurface Investigation Report and Well Installation Workplan.* This report combines the results from both investigations. Site background information, current investigation procedures, investigation results and CRA's conclusions and recommendations are presented below.

## 1.2 <u>SITE BACKGROUND</u>

The former service station site is the location of Mill Square Park, owned by the City of Livermore and located on the east corner of First Street and South 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. Land use surrounding the park is primarily commercial.

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.

## 1.3 SITE GEOLOGY AND HYDROGEOLOGY

*Site Geology:* According to the Groundwater Management Plan prepared by the Zone 7 Water Agency (Zone 7) and dated September, 2005, the site is located in the Mocho II Sub-Basin of the Main Livermore-Amadore Valley Groundwater Basin. In this basin, recent alluvium consisting of sandy gravel and sandy clayey gravel are encountered

from the surface to approximately 150 fbg. This alluvium overlies the Livermore Formation basement. At the site silty sand, silty gravel and sandy gravel were encountered from the surface to roughly 9 feet below grade (fbg). Underlying silts and clays were encountered to approximately 45 fbg. Predominately sands and gravels were encountered from approximately 45 fbg to 80 fbg, the total depth explored.

*Site Hydrogeology:* According to the Groundwater Management Plan prepared by the Zone 7 Water Agency (Zone 7) and dated September, 2005, the site is located in the Mocho II Sub-Basin of the Main Livermore-Amadore Valley Groundwater Basin. Zone 7 Water Agency extracts groundwater from this basin for municipal drinking water. Groundwater in this sub-basin typically flows westward. Based on data reported from four service stations in the area currently monitored quarterly, groundwater flow direction is west to northwest. Fluctuations of groundwater elevation of approximately 10 to >30 feet have been reported in the monitoring wells at these nearby sites.

## 1.4 ENVIRONMENTAL SUMMARY

To date, a total of 31 soil borings and 6 soil vapor probes have been installed at the site. Remedial activities consisted of the removal of three orphaned underground storage tanks (UST). A chronological summary of activities conducted to date at the site is presented as Appendix B.

## 2.0 <u>CURRENT INVESTIGATION</u>

In response to an ACEH request, CRA conducted an additional investigation in October and November of 2008 to further delineate the vertical and horizontal extent of petroleum hydrocarbons at the site. CRA advanced cone penetration testing (CPT) borings CPT3 and CPT4 in South Livermore Avenue, CPT5 in First Avenue and soil borings SB10 through SB12 within the park (Figure 2). CPT6 could not be advanced as proposed due to access agreement issues with the property owners. CPT borings were advanced to approximately 80 feet below grade (fbg) except where refusal limited depth to 60 fbg. Hollow-stem auger borings were advanced to a maximum depth of 65 fbg. CRA re-sampled soil vapor probe VP1 to confirm previous soil vapor data. The investigation procedures and results are presented below.

*Project Personnel:* Ian Hull, Sarah McNaboe, Charlotte Evans and Belew Yifru conducted all fieldwork under the supervision of California Professional Geologist Brandon S. Wilken, P.G. #7564.

*Permits:* Work was performed under Zone 7 permit #28139 and City of Livermore Encroachment permit EN080382 (Appendix C).

*Drilling Company:* Gregg Drilling & Testing, Inc. (Gregg) of Martinez, California (C57 license #485165) advanced the CPT and soil borings.

*Subsurface Clearance:* CRA notified Underground Service Alert to coordinate the location of underground utilities near the site. CRA also hired a private utility locator to confirm utility locations and locate any unmarked utilities. The first 8 feet of each boring were cleared using hand-augers and an air-knife- and water-knife-equipped vacuum truck.

*Drill Dates:* Boring locations were utility cleared on October 23, 24 and 31, 2008. Gregg drilling advanced the soil borings on November 3 through 5, 2008. CRA collected soil vapor samples on November 11, 2008.

*Soil Borings:* Soil borings SB10 through SB12 were advanced within the park to depths ranging from 61.5 to 62.5 fbg. These borings were advanced with a 5-inch diameter hollow stem auger. CRA geologists continuously logged soil according to the Unified Soil Classification System (USCS) ASTM D-2487 guidelines and screened soils with a PID. Soil samples were collected at least every 10 feet, starting from 5 fbg. Additional samples were collected when distinct changes in soil type were encountered or when field screening indicated potential hydrocarbon impact. Groundwater was first

encountered and grab-groundwater samples were collected at approximately 50 fbg in borings SB10 through SB12. All soil boring locations are shown on Figure 2. Boring logs are presented as Appendix D.

*CPT Borings:* Boring CPT3 was advanced adjacent to former fuel USTs removed in 2007 along South Livermore Avenue. Boring CPT3 could only be advanced to 60 fbg due to refusal. CPT5 was advanced offsite to 80 fbg, adjacent to the park and in the expected downgradient direction. CPT4 was advanced farther downgradient to 80 fbg. CRA attempted to collect multiple grab-groundwater samples from water-bearing zones indentified by the CPT. Only one of the three attempted depths in CPT3 produced adequate groundwater. Two depth-discrete groundwater samples were collected from CPT4 and CPT5. Soil samples were collected at the capillary fringe zone, at intervals of distinct change in soil type and where hydrocarbon impacts could have been trapped. Soil samples were screened for organic vapors using a photoionization detector (PID). All CPT boring locations are shown on Figure 2. Gregg's CPT Site Investigation Report, including CPT logs and sample depths, is included as Appendix E.

*Sample Collection and Handling:* Soil and grab-groundwater samples were labeled, placed on ice and transported to a Chevron-approved laboratory under proper chain-of-custody. Each soil sample was covered with Teflon<sup>™</sup> tape and capped with a polyethylene lid. Upon completion, all borings and CPT holes were backfilled to grade with Portland type I/II grout using a tremie pipe and patched to match the existing surface.

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

- Total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd) with silica gel cleanup and motor oil (TPHmo) by EPA Method 8015B modified; and
- 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.

Table 1 presents analytical results for soil from both investigations. Table 2 presents soil physical parameter data. Table 3 presents analytical results for grab-groundwater from both investigations. Laboratory analytical reports for soil and grab-groundwater are included in Appendix F.

*Soil and Water Disposal:* Soil cuttings and rinse water produced during the investigation were temporarily stored onsite in properly labeled 55-gallon drums. Following review of analytical results, the waste was transported to an appropriate Chevron and State-approved facility for disposal.

## 3.0 SOIL VAPOR RE-SAMPLING

Due to elevated oxygen concentrations in soil vapor probe VP1-5, CRA re-sampled both VP1 probes (VP1-5 and VP1-10). Samples from the vapor points were collected using flow meters set at 167 milliliters/minute and one-liter Summa<sup>TM</sup> canisters connected directly to the tubing at each vapor probe. A closed circuit sampling train was created by attaching the sample Summa<sup>TM</sup> canister in series with the purge Summa<sup>TM</sup> canister via a steam-cleaned stainless-steal manifold. A "shut-in" test was performed prior to collecting vapor samples. This test was performed by sealing all openings to ambient air, opening the purge Summa<sup>TM</sup> to establish a vacuum inside the sampling train and waiting to ensure the vacuum remained stable over time. The shut-in test reduces the potential for ambient air to enter the Summa<sup>TM</sup> canisters and potential bias of the results. Then an appropriate volume of stagnant air in the vapor probe tubing was purged so the sample would be representative of actual soil concentrations. After purging, the sample Summa<sup>TM</sup> canister valve was opened. The vacuum of the Summa<sup>TM</sup> canister was used to draw soil vapor through the flow controller and into the sample canister until a negative pressure of approximately 5 inches of mercury 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. Laboratory grade helium was used for leak detection to determine if ambient air was entering the Summa<sup>™</sup> canisters during sampling. A shroud was used to surround the vapor sampling equipment and the connection between the sampling equipment and the vapor probe tubing. A helium detector was also placed inside the shroud to quantify helium concentrations inside the shroud. An atmosphere of at least 80 percent helium was created and maintained for the duration of vapor sampling. Helium was not detected in any of the samples. After sampling, the Summa<sup>™</sup> canisters were packaged and sent to Air Toxics laboratory under chain-of-custody for analysis.

*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
- Oxygen (O<sub>2</sub>), carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>) and helium by ASTM D-1946 (GC/TCD).

Table 4 presents cumulative analytical results for vapor. Laboratory analytical reports for vapor are included in Appendix G.

## 4.0 <u>HYDROCARBON DISTRIBUTION</u>

Results of the January/February 2008 investigation were included with the results of the October/November 2008 investigation for discussion purposes.

## 4.1 HYDROCARBON DISTRIBUTION IN SOIL

In the onsite soil borings, TPHmo and TPHd were not detected above environmental screening levels<sup>1</sup> (ESLs) in any soil sample. Maximum concentrations of TPHg and benzene were detected at 1,300 milligrams per kilogram (mg/kg) and 1.1 mg/kg, respectively, in SB12 at 55.5 fbg. No benzene or oxygenates were detected above ESLs, except for 3.7 mg/kg xylenes in SB12 at 55.5 fbg.

In the offsite CPT borings, TPHmo and TPHd were not detected above ESLs in any soil sample. TPHg was only detected above ESLs in CPT1 at 36 fbg at 100 mg/kg. No BTEX or fuel oxygenates were detected above ESLs.

## 4.2 <u>HYDROCARBON DISTRIBUTION IN GROUNDWATER</u>

In the onsite soil borings, TPHmo was only detected in SB9 at 450 micrograms per liter ( $\mu$ g/L). CRA was unable to analyze for TPHmo from SB8 due to lack of sufficient groundwater for sampling purposes. Maximum concentrations of TPHd were detected in SB11 at 20,000  $\mu$ g/L and of TPHg at 52,000  $\mu$ g/L in SB8. Maximum concentrations of benzene, ethylbenzene, and xylenes were detected in SB12 at 190  $\mu$ g/L, 100  $\mu$ g/L, and 220  $\mu$ g/L, respectively. TBA was only detected in SB7 at 16  $\mu$ g/L. No toluene or other fuel oxygenate was detected above ESLs.

In the offsite CPT borings, a maximum TPHmo concentration of  $4,500 \ \mu g/L$  was detected in CPT3 at 56 fbg. A maximum TPHd concentration of  $43,000 \ \mu g/L$  was detected in CPT5 at 55 fbg. TPHmo and TPHd were detected in all CPT borings. TPHg was detected at a maximum concentration of  $47,000 \ \mu g/L$  in CPT1 at 42 fbg. BTEX was detected at maximum concentrations of  $200 \ \mu g/L$ ,  $140 \ \mu g/L$ ,  $740 \ \mu g/L$ , and  $1,100 \ \mu g/L$ , respectively, in CPT3 at 56 fbg. No MTBE or other fuel oxygenates were detected in any CPT grab-groundwater sample.

<sup>&</sup>lt;sup>1</sup> Regional Water Quality Control Board – San Francisco Bay Region's (RWQCB) Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007, Revised May 2008.

## 4.3 <u>HYDROCARBON DISTRIBUTION IN SOIL VAPOR</u>

Soil gas was collected from VP1 through VP3 from the probes at 5 and 10 fbg. ACEH 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 in any of the vapor samples. All other constituents were either not detected 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 percent. 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. CRA re-sampled VP1 at 5 and 10 fbg and obtained soil vapor oxygen concentrations below atmospheric concentrations. TPHg was only detected at 260 micrograms per cubic meter ( $\mu$ g/m<sup>3</sup>) in VP1 at 10 fbg, an increase from the previous sampling. No TPHg was detected in VP1 at 5 fbg, a decrease from the previous sampling. No benzene was detected in either sample. No other constituents, included chlorinated solvents, were detected above ESLs.

## 5.0 <u>LEAD DISTRIBUTION IN SOIL</u>

ACEH requested multiple shallow soil samples (less than 10 fbg) be analyzed for lead, based on a previous *Soils and Groundwater Investigation Report* dated January 6, 2004 and 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. To assess current lead concentrations in soil, CRA analyzed samples collected from 18 locations, ranging in depth from 1.5 fbg to 39.5 fbg. Reported concentrations were compared to direct exposure screening levels<sup>1</sup> (DESLs). Within the top 1.5 fbg, where the greatest potential for soil contact would occur, lead was detected at a maximum concentration of 189 mg/kg, below the DESL of 260 mg/kg for residential exposure (Table K-1). From 2.5 fbg 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).

## 6.0 <u>CLOSING</u>

Prior to providing any conclusions or recommendations, Chevron and CRA would like to complete the proposed scope of work for this investigation and obtain all necessary data to properly assess site conditions. Once access to this property is granted, the work will be performed and the results incorporated into a final report that will include recommendations as needed.

Chevron and CRA will continue to attempt to gain access to the adjacent property. Below is a detailed account listing our efforts to date.

- An access agreement was forwarded to the owners on September 23, 2008.
- Repeated attempts were made by phone to contact the owners regarding the access agreement in October 2008 and November 2008.
- In late November 2008, CRA was able to speak to one of the property owners. She stated that she would be forwarding the access agreement to the other owner, who lives out of state.
- In January 2009, two more attempts were made by phone to contact the property owner.
- On January 27, 2009, the property owners contacted Chevron with queries and requested revisions to the original access agreement.
- On February 9, 2009, and again on February 23, 2009, Chevron responded to the owner's queries and requests.
- On March 3, 2009, one of the owners emailed Chevron and stated that he was traveling due to a family emergency. He would respond to Chevron in mid-March, when he expects to return home.

Chevron and CRA are pursuing access as diligently as possible. If the schedule is unacceptable to ACEH, then your involvement may be helpful in expediting the process.

All of Which is Respectfully Submitted,

## CONESTOGA-ROVERS & ASSOCIATES

CEran

Charlotte Evans

Bush Swith

Brandon S. Wilken, P.G. #7564



FIGURES



# **Chevron Service Station 30-7233**

2259 First Street Livermore, California



Vicinity Map



I:\CHEV\3122--\312264 30-7233 LIVERMORE\312264 FIGURES\312264-2008(PRES001)GN-EM002 NOV 19/2008



SB1		SOIL BORING LOCATION
B1		SOIL BORING LOCATION (FUGRO 2003)
CPT1	•	CPT LOCATION
VP1	Δ	VAPOR PROBE LOCATION
SSB1		SHALLOW SOIL SAMPLE LOCATION
CPT6 (	۲	PROPOSED CPT BORING LOCATION

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#### TABLE 1

### SOIL ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

								Ethyl-	Total								
		Depth	ТРНто	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 <b>-</b> DCA	EDB	Pb
Sample ID	Date	(fbg)					Repo	orted in m	illigrams	per kilog	ram (mg	/kg)					
ESLs - Shall	low Soil		2500	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
ESLs - Deep	Soil		5000	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
CPT1	02/05/08	21	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
CPT1	02/05/08	36	380	100	1	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
CPT2	02/04/08	22	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
CPT2	02/04/08	30	<10	27	4.4	< 0.026	< 0.052	1.1	0.18	< 0.026	<1.0	< 0.052	< 0.052	< 0.052	< 0.052	< 0.052	
CPT2	02/04/08	35	<12	<4.0	1.3	0.0009	< 0.001	< 0.001	0.002	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
CPT3	11/04/08	18.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	<0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
CPT3	11/04/08	35.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
CPT3	11/04/08	55.5	<10	7.1	52	< 0.024	< 0.047	< 0.047	< 0.047	< 0.024	<0.95	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	
CPT4	11/05/08	50	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
CPT5	11/03/08	51.5	<10	<4.0	<1.0	<0.0005	< 0.001	< 0.001	<0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB6	01/28/08	1-8*	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	<0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6.13
SB6	01/28/08	9.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6.39
SB6	01/28/08	19.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	5.79
SB6	01/28/08	24	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	<0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	10.90
SB7	01/28/08	1-8*	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	8.57
SB7	01/30/08	9.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	8.30
SB7	01/30/08	19.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	4.70
SB7	01/30/08	29.5	<10	<4.0	3.7	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	10.50

### SOIL ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

								Ethyl-	Total								
		Depth	ТРНто	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 <b>-</b> DCA	EDB	Pb
Sample ID	Date	(fbg)					Repo	orted in m	illigrams	per kilog	ram (mg	r/kg)					
ESLs - Shalle	ow Soil		2500	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
ESLs - Deep	Soil		5000	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
SB7	01/30/08	34.5	<10	<4.0	<1.0	<0.0005	< 0.001	<0.001	< 0.001	<0.0005	<0.020	< 0.001	<0.001	<0.001	<0.001	< 0.001	11.60
SB8	01/28/08	1-8*	53	18	<1.0	< 0.0005	< 0.0009	< 0.0009	< 0.0009	< 0.0005	< 0.019	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	21.90
SB8	01/31/08	19.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	10.30
SB8	01/31/08	29.5	<10	<4.0	1.2	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	<0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	8.29
SB8	01/31/08	34.5	<10	67	530	< 0.027	< 0.054	0.10	< 0.054	< 0.027	<1.1	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	7.86
SB8	01/31/08	39.5	<10	<4.0	<1.0	0.007	0.002	0.015	0.007	0.039	0.034	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	8.93
SB9	01/28/08	1-8*	32	13	1.3	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	13.50
SB9	01/29/08	15	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6.36
SB9	01/29/08	27.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	7.92
SB9	01/29/08	34.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	12.30
SB9	01/29/08	46.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	9.34
SB9	01/29/08	54.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	5.77
SB10	10/23/08	5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB10	11/04/08	16	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB10	11/04/08	26	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB10	11/04/08	36	<10	<4.0	<1.0	< 0.0005	< 0.0009	< 0.0009	<0.0009	< 0.0005	< 0.018	<0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	
SB10	11/04/08	46	<10	4.2	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB10	11/04/08	56	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB10	11/04/08	62	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	

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### SOIL ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

								Ethyl-	Total								
		Depth	ТРНто	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 <b>-</b> DCA	EDB	Pb
Sample ID	Date	(fbg)					Repo	orted in m	illigrams	per kilog	gram (mg	/kg)					
ESLs - Shal	llow Soil		2500	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
ESLs - Deep	v Soil		5000	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
SB11	10/24/08	5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB11	11/03/08	11	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB11	11/03/08	16	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB11	11/03/08	26	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB11	11/03/08	36	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB11	11/03/08	45.5	<10	<4.0	59	< 0.0005	< 0.0009	< 0.0009	< 0.0009	< 0.0005	< 0.018	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	
SB11	11/03/08	50.5	<10	25	59	< 0.023	< 0.045	< 0.045	< 0.045	< 0.023	<0.91	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	
SB11	11/03/08	56	<10	45	98	< 0.023	< 0.047	< 0.047	< 0.047	< 0.023	< 0.94	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	
SB11	11/03/08	61	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB12	10/24/08	5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB12	11/03/08	15.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB12	11/03/08	25.5	<10	<4.0	120	< 0.023	< 0.046	< 0.046	< 0.046	< 0.023	< 0.91	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	
SB12	11/03/08	30	<10	34	58	< 0.024	< 0.047	< 0.047	< 0.047	< 0.024	< 0.94	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	
SB12	11/03/08	35.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB12	11/03/08	45.5	<10	<4.0	1.3	0.0007	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SB12	11/03/08	50.5	<10	65	1,200	< 0.023	< 0.046	< 0.046	< 0.046	< 0.023	< 0.92	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	
SB12	11/03/08	55.5	<10	55	1,300	1.1	0.15	2.0	3.7	< 0.024	<0.97	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	
SB12	11/03/08	60.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	<0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
SSB1	02/01/08	1.5															9.52
SSB1	02/01/08	2.5															52.90
SSB1	02/01/08	4.5															7.34

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### SOIL ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

								Ethyl-	Total								
		Depth	ТРНто	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Pb
Sample II	D Date	(fbg)					Repo	orted in m	illigrams	s per kilog	gram (mg	r/kg)					
ESLs - She	allow Soil		2500	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
ESLs - De	ep Soil		5000	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
SSB2	01/28/08	1.5															17.40
SSB2	01/30/08	2.5		11	1.2	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	40.60
SSB2	01/30/08	4.5		4.4	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	15.00
SSB2	01/30/08	8		<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	<0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	7.45
SSB3	01/30/08	1.5															42.80
SSB3	02/06/08	3															52.40
SSB3	02/06/08	5															42.20
SSB4	02/01/08	1.5															10.20
SSB4	02/01/08	2.5															517.00
SSB4	02/01/08	4.5															616.00
SSB4	02/01/08	9															90.80
SSB5	02/06/08	1.5															18.20
SSB5	02/06/08	3															47.50
SSB5	02/06/08	5.5															117.00
SSB5	02/06/08	7															63.50
SSB6	02/06/08	1.5															14.30
SSB6	02/06/08	3															98.90
SSB7	02/06/08	1.5															13.00
SSB7	02/06/08	3.5															9.73
SSB7	02/06/08	5.5															4.60
SSB7	02/06/08	7															3.97

### SOIL ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

								Ethyl-	Total								
		Depth	ТРНто	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 <b>-</b> DCA	EDB	Pb
Sample I	D Date	(fbg)					Repo	orted in m	illigrams	per kilog	gram (mg	r/kg)					
ESLs - Sh	allow Soil		2500	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
ESLs - De	eep Soil		5000	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
SSB8	02/01/08	1.5															168.00
SSB8	02/01/08	4.5															160.00
SSB8	02/01/08	9.5															33.80
SSB9	02/06/08	1.5															189.00
SSB9	02/06/08	3															15.00
SSB9	02/06/08	5															6.24
SSB9	02/06/08	9															6.36
SSB10	01/31/08	1.5															38.90
SSB10	02/06/08	3															67.20
SSB10	02/06/08	5															5.00
SSB10	02/06/08	9															9.34
SSB11	02/06/08	1.5															9.67
SSB11	02/06/08	3															4.86
SSB11	02/06/08	5															3.90
SSB11	02/06/08	8.5															5.62
VP1	02/01/08	4.5	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6.10
VP1	02/01/08	8	<10	<4.0	<1.0	< 0.0005	<0.0009	<0.0009	< 0.0009	< 0.0005	< 0.019	<0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	9.03
VP2	02/01/08	4.5	54	25	<1.0	<0.0005	<0.0009	<0.0009	<0.0009	<0.0005	< 0.018	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	75.40
	02/01/00	0.5	<10	-10	<1.0	<0.000E	<0.0000	<0.0000	<0.0000	<0.000E	<0.010	<0.0000	<0.0000	<0.0000	<0.0000	<0.0000	15 (0
۷Ľ۷	02/01/08	9.0	<10	<b>~4.</b> 0	<1.0	<b>~0.0005</b>	<u>\0.0009</u>	<u>\0.0009</u>	~0.0009	~0.0005	NU.019	<u><u></u>∼0.0009</u>	<u>\0.0009</u>	<u>\0.0009</u>	~0.0009	~0.0009	13.60
VP3	02/01/08	4.5	<10	<4.0	1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6.12
VP3	02/01/08	8	<10	<4.0	<1.0	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	4.22

#### SOIL ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

							Ethyl-	Total								
	Depth	ТРНто	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 <b>-</b> DCA	EDB	Pb
Sample ID Date	(fbg)					Repo	orted in m	illigrams	per kilog	ram (mg	/kg)					
ESLs - Shallow Soil		2500	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750
ESLs - Deep Soil		5000	83	83	0.044	2.9	3.3	2.3	0.023	0.075				0.0045	0.00033	750

#### Notes:

Total petroleum hydrocarbons as motor oil (TPHmo) analyzed by EPA Method 8015B modified unless otherwise noted.

Total petroleum hydrocarbons as diesel (TPHd) analyzed by EPA Method 8015B with silica gel cleanup unless otherwise noted.

Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015B modified unless otherwise noted.

Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); t-butyl alcohol (TBA); di-isopropyl ether (DIPE); ethyl tertiary-butyl ether (ETBE); t-

amyl methyl ether (TAME); 1,2-dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB) analyzed by EPA Method 8260B, except where noted otherwise.

Pb = lead analyzed by EPA method 6010B.

fbg = feet below grade.

ESLs - Shallow Soil = Environmental Screeing Levels for soil < 3m bgs in a commercial setting (Table A) from *Environmental Screening for Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board - San Francisco Bay Regional Interim Final November 2007, Revised May 2008.

ESLs - Deep Soil = Environmental Screening Levels for soil > 3m bgs in a commercial setting (Table C) in the above document.

<x = Not detected at reporting limit x.

#### SOIL PHYSICAL PARAMETER DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

C	C	C	Bulk	Moisture	Total	Effective	Water Filled	Air Filled	Total Organic	Effective Air
Sumple ID	Sumple Date	Sumple Denth (fho)	Density	Content	Porosity	Porosity	Porosity	Porosity	Carbon	Permeability
	Duie	Depin (Jog)	(g/cc)	(% wt)	(% Vb)	(% Vb)	(% Vb)	(% Vb)	(mg/kg)	( <i>md</i> )
VP1	02/01/08	8	1.78	5.7	33.9	31	10.2	23.7	490	6560

#### 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

### GRAB-GROUNDWATER ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

		Sample Denth	ТРНто	трна	ТРНа	Ronzono	Toluene	Ethyl- benzene	Total Xulenes	MTRE	TRA	DIPE	ETRE	TAME	1 <b>2-</b> DCA	FDR
Sample ID	Date	(fbg)	11 11110	11 114	11 113	Denzene	Re	eported ir	n microgra	ams per li	iter (µg/I	L)	LIDL	1711112	1,2-DC/1	LDD
ESLs - Groundwater			100	100	100	1	40	30	20	5	12				0.5	0.05
CPT1	02/05/08	42	1,500	3,300	47,000	5	2	3	2	< 0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
CPT2	02/04/08	31	1,500	4,100	10,000	14	2	57	110	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
CPT3	11/04/08	56	4,500	36,000	29,000	200	140	740	1,100	<1	<4	<1	<1	<1	<1	<1
CPT4	11/05/08	54	720	400	<50	<0.5	< 0.5	<0.5	<0.5	< 0.5	<2	<0.5	<0.5	<0.5	< 0.5	<0.5
CPT4	11/05/08	60	1,400	490	<50	<0.5	<0.5	< 0.5	<0.5	< 0.5	<2	<0.5	< 0.5	<0.5	<0.5	<0.5
CPT5	11/03/08	55	510	43,000	2,500	<0.5	< 0.5	1	0.5	< 0.5	<2	< 0.5	< 0.5	<0.5	<0.5	<0.5
CPT5	11/03/08	68	<400	340	70	< 0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
SB6	01/30/08	22	<400	110	300	3	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
SB7	01/30/08	31	<400	3,000	6,400	<0.5	<0.5	<0.5	<0.5	<0.5	16	<0.5	<0.5	<0.5	<0.5	<0.5
SB8	01/31/08	34	***	18,000	52,000	<1	<1	8	2	<1	<4	<1	<1	<1	<1	<1
SB9	01/29/08	55	450	1,000	490	<0.5	<0.5	<0.5	0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
SB10	11/04/08	50	<400	<320	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
SB11	11/03/08	50	<400	20,000	9,000	<0.5	3	17	150	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5
SB12	11/03/08	50	<400	4,000	5,500	190	15	100	220	< 0.5	<2	< 0.5	< 0.5	<0.5	<0.5	<0.5

#### GRAB-GROUNDWATER ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

TABLE 3

 Sample
 Ethyl- Total

 Depth
 TPHmo
 TPHg
 Benzene
 Toluene
 benzene
 Xylenes
 MTBE
 TBA
 DIPE
 ETBE
 TAME
 1,2-DCA
 EDB

 Sample ID
 Date
 (fbg)
 Reported in micrograms per liter (µg/L)

Notes:

Total petroleum hydrocarbons as motor oil (TPHmo) analyzed by EPA Method 8015B modified.

Total petroleum hydrocarbons as diesel (TPHd) analyzed by EPA Method 8015B with silica gel cleanup.

Total petroleum hydrocarbons as gasoline (TPHg) analyzed by EPA Method 8015B modified.

Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary-butyl ether (MTBE); t-butyl alcohol (TBA); di-isopropyl ether (DIPE); ethyl tertiary-butyl ether (ETBE); t-amyl methyl ether (TAME); 1,2-dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB)

fbg = feet below grade.

ESLs - Groundwater = Environmental Screening Levels for groundwater that is a current or potential source of drinking water (Table A) from *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board - San Francisco Bay Region Interim Final November 2007, Revised May 2008.

< x = Not detected at reporting limit x.

#### SOIL VAPOR ANALYTICAL DATA FORMER TEXACO SERVICE STATION (CHEVRON SITE #30-7233) 2259 FIRST STREET, LIVERMORE, CALIFORNIA

		Depth	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes <sup>1</sup>	MTBE	TBA	DIPE	ETBE	TAME	EDB	1,2-DCA	Naphalene	VOCs	Helium	Oxygen	CO <sub>2</sub>
Sample ID	Date	(fbg)						Repor	ted in m	icrograms	s per cubi	c meter (µ	$(g/m^3)$				Report	ted in % V	olume
ESLs - Soil Gas			29,000	280	180,000	580,000	58,000						14	310	240				
VP1-5	03/10/08	5 - 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
VP1-5	LAB DUPL	ICATE		<3.2	13	<4.4	<4.4	<3.6	<31	<17	<17	<17	<7.8	<4.1	<21		0.20	38	0.36
VP1-5	11/07/08	5 - 5.5	<250	<3.9	<4.6	<5.2	<5.2	<4.4	<15	<20	<20	<20	<9.3	<4.9	<25	ND	< 0.12	19	2.5
VP1-5	LAB DUPL	ICATE															<0.12	19	2.5
VP1-10	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
VP1-10	11/07/08	9.5 - 10	260	<3.7	<4.4	<5.0	6.5	<4.2	<14	<19	<19	<19	<9.0	<4.7	<24	SEE LAB ANALYTICAL	< 0.12	19	2.1
VP1-10 Duplicate	11/07/08	9.5 - 10	270	<3.8	<4.5	<5.2	<5.2	<4.3	<14	<20	<20	<20	<9.1	<4.8	<25	SEE LAB ANALYTICAL	< 0.12	19	2.1
VP1-10 Duplicate	LAB DUPL	ICATE	270																
VP2-5	03/10/08	5 - 5.5	500	<4.0	19	6.4	31	<4.6	<38	<21	<21	<21	<9.7	<5.1	<26		<0.13	17	2
VP2-5 DUP	03/10/08	5 - 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
VP2-10	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
VP3-5	03/10/08	5 - 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
VP3-10	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	<26		<0.12	18	2.2

#### 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 modified ASTM D-1946

fbg = Feet below grade

ESLs - Soil Gas = Environmental Screening Levels for shallow soil gas in commercial/industrial land (Table E-2) from S *creening for Environmental Concerns at Sites* with Contaminated Soil and Groundwater prepared by the California Regional Water Quality Control Board - San Francisco Bay Region Interim Final 2007, Revised May 2008.

<X = Not detected above laboratory method detection limit x

ND = Not detected above various laboratory method detection limits

-- = not analyzed or not applicable

1 = Values for highest value of Xylenes detected.

APPENDIX A

REGULATORY CORRESPONDENCE

## ALAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

AGENCY

May 9, 2008

Mr. Ian Robb Chevron Environmental Management Company 6001 Bollinger Canyon Road San Ramon, CA 94583-2324

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

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

ENVIRONMENTAL HEALTH SERVICES

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

Dear Mr. Robb 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, "Subsurface Investigation Report and Well Installation Workplan," dated March 27, 2008, which was prepared on behalf of Chevron by Conestoga-Rovers & Associates. The "Subsurface Investigation Report and Well Installation Workplan," presents the results of soil, soil vapor, and grab groundwater sampling. Fuel hydrocarbons were detected at elevated concentrations in soil and groundwater Based on these results, the "Subsurface Investigation Report and Well Installation Workplan," proposes the installation of three monitoring wells and resampling of soil vapor probe VP1 at 5 and 10 feet bgs.

The proposed installation of three monitoring wells and re-sampling of soil vapor probe VP1 is generally acceptable. However, we have several comments on the results of the site investigation and proposed scope of work that require additional evaluation and/or investigation. Therefore, we request that you submit a Work Plan that addresses the technical comments below **no later than July 11, 2008**.

#### **TECHNICAL COMMENTS**

- Soil Vapor Sampling. We concur with the proposal to re-sample soil vapor probe VP1. Based on the unknown contents of the former USTs, we request that you expand the analyte list for the proposed TO-15 analysis to include chlorinated solvents. Please present the results of the re-sampling and analyses in the Work Plan or Site Investigation Report requested below.
- 2. Horizontal Extent of Contamination. Elevated concentrations of fuel hydrocarbons were detected in groundwater samples collected from the CPT borings in Livermore Avenue. The horizontal extent of groundwater contamination has not been defined. Please present plans to define the horizontal extent of contamination in the Work Plan requested below.

- 3. Contamination in Area of SB8. Soil boring SB8 is located northeast of the former dispenser islands and north of the former USTs. Based on water level data from other sites, the hydraulic gradient in this area of Livermore is to the west to northwest. Therefore, boring SB8 is apparently cross gradient from the suspected sources of fuel releases at the site. However, the concentrations of total petroleum hydrocarbons as gasoline and diesel detected in the grab groundwater sample from SB8 were higher than the concentrations of TPHg and TPHd detected in grab groundwater samples from the other soil borings and cone penetrometer borings advanced in suspected source areas or downgradient from source areas. Please review these data to develop a proposed scope of work to assess whether contamination in the area of boring SB8 is from the suspected sources located in cross gradient directions or whether a contaminant source exists within the area of or upgradient from boring SB8. Please present your analysis and proposed scope of work in the Work Plan requested below.
- 4. Vertical Extent of Contamination and CPT Borings. The cone penetrometer (CPT) borings were stopped at approximately 55 feet bgs rather than the planned 80 feet bgs. The purpose of the CPT borings was to define the vertical extent of contamination. Fuel hydrocarbons were detected at elevated concentrations in the grab groundwater samples collected from first-encountered groundwater in the CPT borings. Based on these results, it is necessary to extend the CPT borings to a depth of 80 feet bgs to define the vertical extent of contamination. Groundwater samples are to be collected from each significant water-bearing zone identified on the CPT log below first encountered groundwater. Please include plans to extend the CPT borings in the Work Plan requested below.
- 5. Proposed Well Installation. We have no objection to the proposed monitoring well locations. However, the proposed well screen interval for the wells is 20 to 45 feet bgs. A review of the CPT logs indicates that a sandy silt & clayey silt layer that separates overlying and underlying coarse-grained soils, is present from approximately 32 to 36 feet bgs. We request that the monitoring wells not be installed within long well screens that may hydraulically connect separate water-bearing layers. Please review the CPT logs and cross sections to propose shorter well screen intervals that target discrete water-bearing zones.
- 6. Grab Groundwater Sample from SB6. The grab groundwater sampling results from soil boring SB6 appear anomalous. Soil boring SB6 was advanced adjacent to boring B3. Boring B3 was advanced by Fugro West, Inc. in September 2003. The grab groundwater sample from SB6 contained TPHg at a concentration of 110 milligrams per kilogram while the grab groundwater sample from Fugro West, Inc. contained TPHg at a concentration of 18,000 mg/kg. The depth to first encountered groundwater in boring SB6 is reported as 22 feet bgs, which is significantly less than the depth to groundwater elsewhere at the site. Furthermore, we are not aware of groundwater being encountered at depths as shallow as 22 feet bgs in this area of Livermore during the January to February 2008 time period. In the Work Plan requested below, please discuss the likely source of shallow groundwater in SB6 and whether the sample is representative. Cross sections of the site are required in order to help in this evaluation.

7. Grab Groundwater Results for Boring SB-9. The text on page 3 indicates that grab groundwater samples were collected from each boring except SB9. The boring log also indicates that groundwater was not encountered in the boring. However, groundwater analytical results for SB9 water are included in Table 4 and are presented in Attachment E – Laboratory Analytical Reports. A chain of custody form for a groundwater sample from boring SB9 is also included in Attachment E. Please review the grab groundwater results for SB9 to assure that grab groundwater results are reported accurately in future reports.

#### TECHNICAL REPORT REQUEST

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

Sec. 1.

- July 11, 2008 Work Plan
- 120 days after ACEH approval of Work Plan 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.

#### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is 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.

#### 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 Wiskham, California PG 3766, CEG 1177, and CHG 297 Senior 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

Engeneration Sonosia Roversia Associates Sonormonis Street Scherole Engenmine CA: 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File

Alameda County Environmental Cleanup	ISSUE DATE: July 5, 2005
Oversight Programs	REVISION DATE: December 16, 2005
(LOP and SLIC)	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

Effective January 31, 2006, 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.

#### REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection. (Please do not submit reports as attachments to electronic mail.)
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

#### **Additional Recommendations**

• A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

#### **Submission Instructions**

- 1) Obtain User Name and Password:
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to <u>dehloptoxic@acgov.org</u>

or

- ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
- b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.

#### ) Upload Files to the ftp Site

- a) Using Internet Explorer (IE4+), go to <u>ftp://alcoftp1.acgov.org</u>
  - (i) Note: Netscape and Firefox browsers will not open the FTP site.
  - b) Click on File, then on Login As.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to <u>dehloptoxic@acgov.org\_notify</u> us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload)
## ALAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

AGENCY

August 22, 2008

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

Mr. Ian Robb Chevron Environmental Management Company 6001 Bollinger Canyon Road 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. Robb 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, "Soil Boring Work Plan," dated July 9, 2008, which was prepared on behalf of Chevron by Conestoga-Rovers & Associates. The Work Plan proposes soil borings to further delineate the horizontal and vertical extent of petroleum hydrocarbons prior to monitoring well installation.

The scope of work is conditionally approved and may be implemented provided that the technical comments below are addressed and incorporated during the proposed activities. Submittal of a revised Work Plan or Work Plan Addendum is not required unless an alternate scope of work outside that described in the Work Plan and technical comment below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

#### **TECHNICAL COMMENTS**

1. Soil Boring Depth. Proposed soil borings B10 through B12 are to be advanced approximately 10 feet below first encountered groundwater or a depth of 40 feet bgs, whichever is deeper for the collection of soil samples and one grab groundwater sample from first-encountered groundwater. The boring depth is to be extended if contamination is observed at the total proposed depth of the boring. The collection of grab groundwater samples from each boring is necessary for site assessment. Therefore, we request that the borings be re-drilled at a nearby location if a groundwater sample cannot be obtained from first-encountered groundwater in the original boring. Extending the depth of the borings may potentially also be necessary if groundwater is not encountered within the upper 40 feet bgs. Please present the results of the soil borings and analyses in the Site Investigation Report requested below.

Mr. Ian Robb Ms. Chris Davidson RO0002908 August 22, 2008 Page 2

#### **TECHNICAL REPORT REQUEST**

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

• January 6, 2009 – 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.

#### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is 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

Mr. Ian Robb Ms. Chris Davidson RO0002908 August 22, 2008 Page 3

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.

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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 Senior 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

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

Donna Drogos, ACEH Jerry Wickham, ACEH File

Alamoda County Environmental Cleanup	ISSUE DATE: July 5, 2005			
Oversight Programs	<b>REVISION DATE:</b> December 16, 2005			
(LOP and SLIC)	PREVIOUS REVISIONS: October 31, 2005			
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      - or
    - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
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  - (i) Note: Netscape and Firefox browsers will not open the FTP site.
- b) Click on File, then on Login As.
- c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
- d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
- e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to <u>dehloptoxic@acgov.org</u> notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by Report Upload. (e.g., Subject: RO1234 Report Upload)

APPENDIX B

SITE HISTORY

## SITE HISTORY

**September 2003 Investigation:** The City of Livermore Engineering Division, as part of a redevelopment plan, retained Fugro West, Inc. (Fugro) to investigate soil and groundwater conditions beneath Mills Square Park to evaluate the potential presence of petroleum hydrocarbons resulting from the historic use of the site as a service station. Fugro advanced borings B1 through B3 onsite. Hydrocarbons were only detected in one soil sample, which contained 9.6 mg/kg total petroleum hydrocarbons as diesel (TPHd) and 3.5 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg). Groundwater samples contained up to 42,000 micrograms per liter ( $\mu$ g/l) TPHd and 18,000  $\mu$ g/l TPHg. No benzene was detected in soil, but was detected in groundwater up to 140  $\mu$ g/l. Total lead concentrations up to 3,700 mg/kg were detected in all soil samples at 3 feet below grade (fbg). Details can be found in Fugro's January 6, 2004 *Soil and Groundwater Investigation Report*.

**September 2005 UST Removal:** In September 2005, an orphan underground storage tank (UST) was encountered beneath the sidewalk on the southwest corner of the site. At the direction of the Livermore-Pleasanton Fire Department, the UST was removed, soil samples were collected, and the excavated soil was backfilled into the UST pit. According to Consolidated Engineering Laboratories' October 4, 2005, *Environmental Sampling, Testing and Evaluation of Soil* report, soil beneath the UST contained up to 54 mg/kg total petroleum hydrocarbons as motor oil (TPHmo), 4,100 mg/kg TPHd, and 1,200 mg/kg TPHg. Chevron was not involved with the tank removal and was contacted later by ACEH to investigate whether any other USTs remained in Mills Square Park.

**August 2006 Geophysical Investigation:** Cambria Environmental Technology, Inc. (Cambria), now Conestoga-Rovers & Associates (CRA), contracted NORCAL Geophysical Consultants, Inc. to determine if any USTs still remained in place. Two suspected tanks were identified in the southwest corner of the park, measuring approximately 5 by 7 feet and located approximately 3 fbg. More information available in Cambria's December 22, 2006 *Subsurface Investigation Report*.

**September and October 2006 Site Investigation:** Cambria observed Woodward Drilling Company, Inc. advance borings SB1 through SB5 in the vicinity of the former dispenser islands and suspected USTs. Up to 1,400 mg/kg TPHmo, 3,000 mg/kg TPHd, 8,700 mg/kg TPHg, and 14 mg/kg benzene were detected in soil. The maximum lead concentration was 65.4 mg/kg at 5 fbg. No groundwater was encountered to the total explored depth of 40 fbg. More information is available in Cambria's December 22, 2006 *Subsurface Investigation Report*.

**June 2007 Tank Removal:** On June 20, 2007, CRA observed Gettler-Ryan Inc. remove two 750 gallon single-wall steel gasoline USTs (Tank 1 and Tank 2) and approximately 27 feet of associated product piping. CRA collected seven compliance soil samples from beneath the ends

and middle of both Tank 1 and Tank 2 and from below the pipes protruding from the northwestern wall of the tank pit. Up to 11,000 mg/kg TPHmo and 2,800 mg/kg TPHd were detected. No TPHg was detected in any sample. Lead was detected at a maximum concentration of 1,170 mg/kg at 8 fbg. More information can be found in CRA's August 17, 2007 Underground Storage Tank Removal and Compliance Sampling Report.

**January and February 2008 Site Investigation:** CRA observed Gregg Drilling & Testing, Inc., RSI Drilling, and Vironex Environmental Field Services advance soil borings CPT1, CPT2 and SB6 through SB9, shallow soil borings SSB1 through SSB11, and install vapor probes VP-1 through VP 3, both on and offsite. The highest concentrations detected were 380 mg/kg TPHmo and 100 mg/kg TPHd in CPT1 at 36 fbg, and 530 mg/kg TPHg in SB8 at 34.5 fbg, and 0.007 mg/kg benzene in SB8 at 39.5 fbg. The highest concentrations detected in groundwater were 1,500  $\mu$ g/L TPHmo in both CPT1 and CPT2, 52,000  $\mu$ g/L TPHd in SB8, 18,000  $\mu$ g/L TPHg in SB8, and 14  $\mu$ g/L benzene in CPT2., No benzene was detected in soil vapor and no other constituents were detected or were at least two orders of magnitude below the shallow soil gas screening levels for evaluation of potential vapor intrusion concerns for commercial/industrial land use. More information is available in CRA's March 27, 2008 *Subsurface Investigation Report and Well Installation Workplan*.

APPENDIX C

PERMITS

APPENDIX D

BORING LOGS

APPENDIX E

GREGG CPT SITE INVESTIGATION REPORT

APPENDIX F

LABORATORY ANALYTICAL REPORTS FOR SOIL AND GRAB-GROUNDWATER

APPENDIX G

LABORATORY ANALYTICAL REPORTS FOR VAPOR

APPENDIX C

PERMITS

# **EXPERIMENT**

# **ZONE 7 WATER AGENCY**

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

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 2259 FIRST ST. O	PERMIT NUMBER <u>28001</u> WELL NUMBER <u>35/2E-9N17 to 9N19 (VP-1 to VP-3</u> )
LIVERMORE	APN097-0110-005-03
California Coordinates Sourceft. Accuracy±ft. CCNft. CCEft. APN	PERMIT CONDITIONS (Circled Permit Requirements Apply)
CLIENT Name CHEVRON ENVIRONMENTAL MANAGEMENT ( Address GOOL BOLLINGER CANYON Phone City SAN RAMON Zip 94583 APPLICANT Name CONESTOGA- ROVERS & ASSOC. Email jhull & Craworld. Com Fax 510-420-9170 Address 5900 HOLLIS ST., Sto. A Phone 510-420-3344	<ul> <li>A. GENERAL</li> <li>1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.</li> <li>2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.</li> <li>3. Permit is void if project not begun within 90 days of approval date.</li> </ul>
City EMERYVILLE       Zip 94608         TYPE OF PROJECT:       Well Construction       Geotechnical Investigation         Well Destruction       Contamination Investigation       X         Cathodic Protection       Other       I	<ul> <li>B. WATER SUPPLY WELLS</li> <li>1. Minimum surface seal diameter is four inches greater than the well casing diameter.</li> <li>2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.</li> </ul>
PROPOSED WELL USE:       Irrigation       Image: Constraint of the second secon	<ol> <li>Grout placed by tremie.</li> <li>An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.</li> <li>A sample port is required on the discharge pipe near the wellhead.</li> </ol>
MON ITORING         DRILLING METHOD:         Mud Rotary       Air Rotary         Cable Tool       Direct Push #         Other       CPT,         HANO       AVGER         DRILLING COMPANY       GPEGG         OP LILING       (C-57-485165)         AND       VIRONEX	<ul> <li>C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS</li> <li>1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.</li> <li>2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.</li> <li>3. Grout placed by tremie.</li> </ul>
DRILLER'S LICENSE NO WELL SPECIFICATIONS: Drill Hole Diameter 2 in. Maximum Casing Diameter 1/4 in. Depth 10 ft. Surface Seal Depth 4 ft. Number 3	D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
SOIL BORINGS: Number of Borings 17 Maximum	E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
Hole Diameter <u>2-5</u> in. Depth <u>BO</u> ft. ESTIMATED STARTING DATE <u>JAN 28, 2003</u> ESTIMATED COMPLETION DATE FEB 7, 2008	<ul> <li>F. WELL DESTRUCTION. See attached.</li> <li>G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.</li> </ul>
I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.	Approved Wyman Hong Date 1/8/08
APPLICANT'S SIGNATURE	Wyman Hong
ATTACH SITE PLAN OR SKETCH	



### 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.

Sincerely,

Enc.

Nyman Hong

.

Wyman Hong () Water Resources Specialist

## City of Livermore

Community Development Department 1052 S. Livermore Avenue Livermore, CA 94550 (925) 960-4500 Encroachment Permit No. EN070478 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.

		Fernin Fee.		ψ00.00
		Inspection Fee:		\$535.00
Applicant/	Permittee:	Bond:		\$0.00
Name:	Conestoga-Rovers & Associates			
Address:	5900 Hollis Street, Suite A			
	Emeryville, CA 94608, 94608			`
Phone:				
		Tota	51.	¢588 ///

otal: \$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.

#### 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.

Length of Excavation: \_ L.F.

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.

Signature of Permittee:

Reall (TAN HULL) Date: 1/24/2008

City Engine 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 PERMIT-APPLICATION/WORKSHEET

City of Livermore 1052 S. Livermore Avenue Livermore, CA 94550	Public Works Inspection 925-960-4500 925-960-4503 fax
-For Office Use Only-	
Date Received: Project Number:	
Ready to Issue: Total Fees Required:	
Notified Applicant By: Telephone/Mail Date Contacted:	
Project address:       2259       FIRST STREET       Tract#       Lot#       APN#         Applicant's Name:       IAN HULL FOR CRA INC.       Telephone number:       SIO - 420 - 33 H         Applicant's Address:       5900       HOLLIS ST., Ste. ACity EMERYVILLE       State       CA       Zip 94         PROPERTY OWNER:       Name:       CITY OF LIVER MORE       Name:       CONTRACTOR:       Name:       Address:       900       HOWE R.D.         City/Zip:       City/Zip:       City/Zip:       MARTINEZ, 945F       City/Zip:       MARTINEZ, 945F         Telephone Number:       925 - 313 - 6       State License Number: 485165       T	<u>TESTING</u> <u>TESTING</u> <u>53</u> <u>5000</u> Type <u>C57</u>
FIRST ST. FOR (9) DAYS. CLOSE MILLS SQUARE PARK WALKWAY, PORTIO THE PARK AND PORTIONS ON THE MEARBY SIDEWALK (AS SHOWN) FOR 7 WORK DATES! JAN. 28 - PEB. 6,2008 SKETCH FIRST STREET X-WALK WITH A SQUARE NORK DATES AND A STREET X-WALK NORK A SHOWN A STREET X-WALK NORK A STREET X-WALK	<u>NS OF</u> DAY S.
- CLOSED X X	/





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APPENDIX D

BORING LOGS



# **BORING/WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SB6	3	
JOB/SITE NAME	30-7233	DRILLING STARTED 28-	Jan-08	
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 30-	Jan-08	
PROJECT NUMBER_	312264	WELL DEVELOPMENT DATE (	YIELD) NA	_
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVATION	ON Not Surveyed	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	NA	
BORING DIAMETER	5"	SCREENED INTERVAL	NA	
LOGGED BY	I. Hull	DEPTH TO WATER (First Enco	ountered) 22.0 ft (30-Jan-08)	Ā
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static)	NA	Ţ
DEMARKS	Litility algored with an air knife aggisted yeau um tr	uck to 9 foot below grade		





# **BORING/WELL LOG**



0

SB7-34.5

Silty SAND: Grey; wet; 80% coarse sand, 20% silt;

@34 fbg sand becomes well graded, change in

non-plastic; high estimated permeability.

@31 fbg soil becomes wet

SM

35

33.0

35.0



## **BORING/WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB8				
JOB/SITE NAME	30-7233	DRILLING STARTED					
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 3	1-Jan-08				
PROJECT NUMBER	312264	WELL DEVELOPMENT DAT	E (YIELD) N	A			
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVA	TION N	ot Surveyed			
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION NA					
BORING DIAMETER	5"	SCREENED INTERVAL	NA				
LOGGED BY	I. Hull	DEPTH TO WATER (First Er	ncountered)_	34.0 ft (31-Jan-08)	$\underline{\nabla}$		
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static)	_	NA	Ţ		
REMARKS	Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade						



WELL LOG (PID) I:ICHEVRON/307233~1/BORING~1/307233 BORING LOGS.GPJ DEFAULT.GDT 5/15/08

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

# **BORING/WELL LOG**

#### **CLIENT NAME** Chevron Environmental Management Company JOB/SITE NAME 30-7233 LOCATION 2259 First Street, Livermore, California

BORING/WELL NAME SB7 **DRILLING STARTED** 28-Jan-08

DRILLING COMPLETED 30-Jan-08

Continued from Previous Page

_		
	~ ~	
ETEN	· ) ( )	100

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	HOLOGIC DESCRIPTION		L DIAGRAM
							composition: 60% sand, 30% silt, 10% gravel.			
										Bottom of
										35 ft
								1		

PID (ppm)

23

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

# **BORING/WELL LOG**

CLIENT NAME	Chevron Environmental Management C
JOB/SITE NAME	30-7233
LOCATION	2259 First Street, Livermore, California

I Management Company BORING/WELL NAME DRILLING STARTED

<u>28-Jan-08</u>

DRILLING COMPLETED 31-Jan-08

SB8

						Continued from Previous Page			
BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
	SB8-39.5			SM		Silty SAND: Brown; wet; 60% sand, 35% silt, 5% gravel; non-plastic; moderate estimated permeability.	40.0		Bottom of Boring @ 40 ft



# **BORING/WELL LOG**

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	I. Hull	DEPTH TO WATER (First Encountered) NA
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA
DEMARKS	Litility alcored with an air knife accieted yeauum tr	uck to 9 fact holow grade



## **BORING/WELL LOG**

**CLIENT NAME** JOB/SITE NAME LOCATION

(mqq)

PID

3

30

Chevron Environmental Management Company 30-7233

2259 First Street, Livermore, California

BORING/WELL NAME **DRILLING STARTED** 

Continued from Previous Page

28-Jan-08

SB9

DRILLING COMPLETED 29-Jan-08

CONTACT DEPTH (ft bgs) SAMPLE ID GRAPHIC LOG BLOW COUNTS U.S.C.S. DEPTH (ft bgs) EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM 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 SM @50 fbg becomes stiff, composition changes: 60% sand, 40% silt. 54.0 SM 55.0 SB9-54.5 55 sand, 30% fine gravel; non-plastic; moderate to high estimated permeability. Bottom of Boring @ 55 ft PAGE 2 OF 2

WELL LOG (PID) I:/CHEVRON/307233-1/BORING-1/307233 BORING LOGS.GPJ DEFAULT.GDT 5/15/08



2259 First Street, Livermore, California

**BORING / WELL LOG** 

**CLIENT NAME** JOB/SITE NAME LOCATION

Chevron Environmental Management Company Chevron site #30-7233

**BORING/WELL NAME SB10 DRILLING STARTED** 

23-Oct-08

Continued from Previous Page

DRILLING COMPLETED \_\_\_\_04-Nov-08

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW COUNTS EXTENT U.S.C.S. DEPTH (fbg) GRAPHIC LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM ML 25 SB10- S-26 0 30 @ 30fbg composition changes to: 5% clay, 65% silt, 30% sand; low plasticity; low estimated permeability. 35.0 35 <u>Clayey sandy SILT</u>: Mottled brown; damp; 10% clay, 80% silt, 10% sand; medium plasticity; low estimated permeability. SB10- S-36 0 Continued Next Page PAGE 2 OF 3



**BORING / WELL LOG** 

**CLIENT NAME** JOB/SITE NAME LOCATION

Chevron Environmental Management Company Chevron site #30-7233

**BORING/WELL NAME DRILLING STARTED** DRILLING COMPLETED \_\_\_\_04-Nov-08

**SB10** 23-Oct-08

2259 First Street, Livermore, California Continued from Previous Page





WELL LOG (PID) I:\CHEVRONI3122-\312264-1\312264-4\BORING-1\312264-BORING-1\312264-BORING LOGS.GPJ DEFAULT.GDT 3/5/09

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

# **BORING / WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB10		
JOB/SITE NAME	Chevron site #30-7233	DRILLING STARTED 2	3-Oct-08		
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED	4-Nov-08		
PROJECT NUMBER	312264	WELL DEVELOPMENT DAT	E (YIELD)	NA	
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVA		NA	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATIO	N _	NA	
BORING DIAMETER	5"	SCREENED INTERVALS		NA	
LOGGED BY	Belew Yifru	DEPTH TO WATER (First E	ncountered	) NA	$\overline{\Delta}$
REVIEWED BY	Brandon S. Wilken, P.G. #7564	DEPTH TO WATER (Static)		NA	Ţ
REMARKS	Utility cleared with an air-knife-assisted vacuum tr	uck to 8 feet below grade			

Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		SB10- S-5		  - 5  	GM		Sandy GRAVEL with cobbles Brown; damp; 10% silt, 30% sand, 60% sub-angular to rounded gravel; non-plastic; high estimated permeability.	8.0	
0		SB10- S-16					Continued Next Page		Portland Type I/II Cement



WELL LOG (PID) 1:/CHEVRON/3122-\312264~1\312264~4\BORING~1\312264-BORING LOGS.GPJ DEFAULT.GDT 3/5/09

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

# **BORING / WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB11		
JOB/SITE NAME	Chevron site #30-7233	DRILLING STARTED	24-Oct-08		
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED	03-Nov-08		
PROJECT NUMBER	312264	WELL DEVELOPMENT DA	TE (YIELD)	NA	
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEV	ATION _	NA	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	ОМ	NA	
BORING DIAMETER	5"	SCREENED INTERVALS		NA	
LOGGED BY	Belew Yifru	DEPTH TO WATER (First E	ncountered	) NA	Ā
REVIEWED BY	Brandon S. Wilken, P.G. #7564	DEPTH TO WATER (Static)		NA	Ţ
REMARKS	Utility cleared with an air-knife-assisted vacuum tr	uck to 8 feet below grade			

Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		SB11- S-5			GM		Sandy GRAVEL with cobbles: Brown; damp; 10% silt, 20% sand, 70% gravel and round to angular cobbles up to 6" long; non-plastic; high estimated permeability.	10.0	
1		SB11- S-16		10  15    			Clayey sandy SILT: Brown; damp; 10% clay, 80% silt, 10% sand; medium plasticity; low estimated permeability.		Portland Type I/II     Cement



**BORING / WELL LOG** 

**CLIENT NAME** JOB/SITE NAME LOCATION

Chevron Environmental Management Company BORING/WELL NAME Chevron site #30-7233

2259 First Street, Livermore, California

SB11 DRILLING STARTED

24-Oct-08

DRILLING COMPLETED 03-Nov-08

Continued from Previous Page

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
WELL LOG (PID) 1:\CHEVRON\3122-\312264-1\312264-4\BORING~1\312264-BORING_1\312264-BORING LOGS.GPJ DEFAULT.GDT 3\5\09	0		SB11- S-26					@35 fbg composition and color change: mottled brown; 5% clay, 80% silt, 15% sand; low plasticity; low estimated permeability. @40 fbg, composition changes: 10% clay, 80% silt, 10% sand; low plasticity; low estimated permeability.	35.0	



**BORING / WELL LOG** 

**CLIENT NAME** JOB/SITE NAME LOCATION

Chevron Environmental Management Company Chevron site #30-7233

**BORING/WELL NAME DRILLING STARTED** 

SB11

2259 First Street, Livermore, California Continued from Previous Page

24-Oct-08 DRILLING COMPLETED 03-Nov-08





# **BORING / WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	SB12	
JOB/SITE NAME	Chevron site #30-7233	DRILLING STARTED	24-Oct-08	
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED	03-Nov-08	
PROJECT NUMBER	312264	WELL DEVELOPMENT DA	TE (YIELD)	NA
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELE	ATION	NA
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVAT	ION _	NA
BORING DIAMETER	5"	SCREENED INTERVALS		NA
LOGGED BY	Belew Yifru	DEPTH TO WATER (First	Encountered	) NA 💆
REVIEWED BY	Brandon S. Wilken, P.G. #7564	DEPTH TO WATER (Statio	:)	NA 👤
REMARKS	Utility cleared with an air-knife-assisted vacuum tr	uck to 8 feet below grade		

Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade




**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

Chevron Environmental Management Company BORING/WELL NAME Chevron site #30-7233

2259 First Street, Livermore, California

SB12 DRILLING STARTED

24-Oct-08

DRILLING COMPLETED 03-Nov-08

Continued from Previous Page

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC I OG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
WELL LOG (PID) 1:/CHEVRON3122-\312264-1\312264-4\BORING-1\312264-BORING LOGS.GPJ DEFAULT.GDT 3/5/09	1		SB12- 25.5 SB12- 30 SB12- 35.5					@40 fbg composition and color change: mottled light brown and grey; 85% silt, 10% sand, 5% gravel.	35.0	
								Continuou Nont i ugo		PAGE 2 OF 3



**BORING / WELL LOG** 

**CLIENT NAME** JOB/SITE NAME LOCATION

Chevron Environmental Management Company Chevron site #30-7233

2259 First Street, Livermore, California

**BORING/WELL NAME** SB12 **DRILLING STARTED** 

24-Oct-08

DRILLING COMPLETED 03-Nov-08

Continued from Previous Page





CLIENT NAM	IE	hevr	ron En	vironme	ental N	lanagement Company	BORING/WELL NAME	SSB1			
JOB/SITE NA	ME <u>3</u>	0-72	33				DRILLING STARTED	31-Jan-08			
LOCATION	2	259	First S	treet, L	ivermo	ore, California	DRILLING COMPLETED_	01-Feb-08			
PROJECT NU	JMBER 3	1226	64				WELL DEVELOPMENT DA	ATE (YIELD)	NA		
DRILLER	F	SI D	rilling				GROUND SURFACE ELEV	ATION	Not S	urveyed	
DRILLING MI	ETHOD⊦	land	Auger				TOP OF CASING ELEVAT	ION NA			
BORING DIA	METER 2	"					SCREENED INTERVAL	NA			
LOGGED BY	S	. Mc	Naboe	9			_ DEPTH TO WATER (First Encountered) NA				
REVIEWED E	BYF	. Fo	ss, PG	#7445			DEPTH TO WATER (Statio	c)	NA	۱.	<u> </u>
REMARKS	L	Itility	cleare	d with a	an air-l	knife-assisted vacuum tru	ick to 8 feet below grade				
PID (ppm) BLOW	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHC	LOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WELL DIAGRAM	
	000145	-		ML		Sandy SILT with gra sand, 40% 0.2-inch g moderate estimated	<b>vel:</b> Brown; damp; 50% well ravel, 10% silt; low plasticity; permeability.	graded ;	20		<ul> <li>Native Soil</li> </ul>
0	SSB1-1.5 SSB1-2.5 SSB1-4.5		  - 5	GW		Sandy GRAVEL with coarse gravel, 40% v non-plastic; high estin	<u>silt</u> :Brown; moist; 50% fine /ell graded sand, 10% silt; nated permeability.	e to	5.0		<ul> <li>Portland Type I/II Cement</li> </ul>
						Refusal @ 5 fbg					Bottom of Boring @ 5 ft



CLIENT	NAME	C	hev	ron En	vironm	ental N	lanagement Company	BORING/WELL NAME	SSB2			
JOB/SI	TE NAM	IE3	0-72	233				DRILLING STARTED	01-Feb-08			
LOCAT	ION	2	259	First S	treet, L	ivermo	ore, California	DRILLING COMPLETED	01-Feb-08			
PROJE	CT NUN	IBER <u>3</u>	122	264				WELL DEVELOPMENT D	ATE (YIELD)	NA		
DRILLE	R	R	SI	Drilling				GROUND SURFACE ELE	VATION _	Not S	urveyed	
DRILLIN	NG MET	HOD H	lanc	d Auger				TOP OF CASING ELEVA	TION NA			
BORING	g diam	ETER <u>2</u> '	"					SCREENED INTERVAL	NA			
LOGGE	D BY	S	. M	cNaboe	;			_ DEPTH TO WATER (First Encountered) NA				
REVIEV	VED BY	<u> </u>	t. Fo	oss, PG	#7445	5		_ DEPTH TO WATER (Static) NA				
REMAR	KS _	U	Itility	y cleare	d with	an air-	knife-assisted vacuum tr	uck to 8 feet below grade				
	1	_								s)		
PID (ppm)	BLOW COUNTS	SAMPLE IC	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHO	DLOGIC DESCRIPTION		CONTACT DEPTH (ft bg	WEL	L DIAGRAM
			P				Silty SAND: Brown;	moist; 55% well graded san	d, 40%			
1		SSB2-1 5	1992		SIM		permeability.	lasticity; moderate estimated	1	2.0		<ul> <li>Native Soli</li> </ul>
		SSB2 25	en j				Sandy GRAVEL wit	h silt:Brown; moist; 50% fin	e to	1		
'		3302-2.3	Ť				non-plastic: high est	mated permeability.				
		000045	(m),			•••						
0		55B2-4.5	Ť	- 5	GW							<ul> <li>Portland Type</li> </ul>
						.•						I/II Cement
0		SSB2-8	<b>1</b> 02							8.5		
							Refusal @ 8.5 fbg					
							Neidodi @ 0.0 ibg					
												Bottom of Boring @
												8.5 ft
/08												
5/15												
DI												
JLT.O												
EFAL												
S.GF												
LOG												
SING												
BOF												
7233												
1/30												
ŠN												
BOR												
11~11												
30725												
NON												
TEVR												
I:/CH												
<u> </u>												
<u> </u>												
ME N												



JOBRITE NAME     30/2733     ORILLING STARTED     30/an 08       ICOCATION     2226 First Steel, Livernore, California     PRILLING COMMETTED     06-b-0.8       PROJECT MUBBER     322204     WELL DOVELOPMENT DATE (YELD)     Mathematical       DRILLING GENRO DUMETER     C     COOP OF CASNO ELEVATION NA     COOP OF CASNO ELEVATION NA       DORING DUMETER     C     SCREEND INTERVAL     NA     VELL DOVELOPMENT DATE (YELD)       DORING DUMETER     C     SCREEND INTERVAL     NA     VELLOCOMMENT DATE       LOGGED BY     I.H. Hull     DEPTH TO WATER (First Encountered)     MA     VELLOCOMMENT DATE       REVIEWED BY     F. Foss, FO 37445     DEPTH TO WATER (First Encountered)     MA     VELLOCAGE       REVIEWED BY     Utility-clarend with an art-infe-assisted vacuum truck to 8 feet below grade     VELL DIAGRAM     VELL DIAGRAM       4     S8835 1.6     S     S     S     S     S       2     S8835 1.6     S     S     S     S     S       3     S     S     S     S     S     S       2     SS835 1.6     S     S     S     S     S       3     S     S     S     S     S     S       4     SS835 1.6     S     S     S     S	JOB/SITE NAME       30-7233       DRILLING STARTED       30-Jan-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 Survey         DRILLING METHOD       Hand Auger       TOP OF CASING ELEVATION NA         BORING DIAMETER       2"       SCREENED INTERVAL NA	veyed				
LOCATION     229 First Steet, Lewronie, California     DRILLING COMPLETED_06-56-08       PROJECT NUMBER     31224       DRILLING RIMER     31224       DRILLING RIMER     31224       DRILLING RIMER     31234       DRILLING RIMER     31234       BORIND DUMATER     2       SCREEND INTERVAL     NA       LOGGED BY     1. Ihull       LOGGED BY     R. Foss, PG 87245       DEFTH TO WATER (Ratic)     NA       VELL DEVELOPS     NA       REMARS     Ubity cleared with an all-onto-assisted vacuum fruct to 8 test balax grade       Image: Screen of the state o	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	veyed				
PROJECT NUMBER     312264     WELL DEVELOPMENT DATE (YIELD) NA       DRILLER     RSI Diffing     GROUND SURFACE ELEVATION     NA       DRILLING METHOD     Hand Augor     TO P C CASING ELEVATION NA     SCREEMED VIEW       DORNO DAMETER Z     SCREEMED WITERVAL     NA     VIEW       LOGGED BY     I. Huil     DEPTH TO WATER (First Encountered)     NA     V       REWARKS     Utility cleaned with an at-kinfe assisted vacuum truck to 5 feb tobow grade     NA     V       REMARKS     Utility cleaned with an at-kinfe assisted vacuum truck to 5 feb tobow grade     NA     V       Image: State of the	PROJECT NUMBER       312264       WELL DEVELOPMENT DATE (YIELD)       NA         DRILLER       RSI Drilling       GROUND SURFACE ELEVATION       Not Surve         DRILLING METHOD       Hand Auger       TOP OF CASING ELEVATION NA       Not Surve         BORING DIAMETER       2"       SCREENED INTERVAL       NA	veyed				
DRILLER     RSI Drilling     GROUND SURFACE ELEVATION     MASServed       DRILLING MARCEN     270 PG CASING ELEVATION     NA       BORNKO DIAMETER     27     SCREENED INTERVAL     NA       LOGGED BY     1. Hull     DEPTH TO WATER (First Encountered)     NA       REVIEWED BY     R. Foss, PG 27445     DEPTH TO WATER (Static)     NA       PRIVEWED BY     R. Foss, PG 27445     DEPTH TO WATER (Static)     NA       REMARKS     Utility cleared with an air knife assisted vacuum truck to 8 feet below grade     NA       Image: Static Stati	DRILLER       RSI Drilling       GROUND SURFACE ELEVATION       Not Surve         DRILLING METHOD       Hand Auger       TOP OF CASING ELEVATION NA         BORING DIAMETER       2"       SCREENED INTERVAL       NA	veyed				
DBLILING METHOD     Hand Auger     TO PC F CASING ELEVATION NA       BORNED OWNERRER     2       LOOGOED BY     1. Hull       REVIEWED BY     RevieweD avg       REVIEWED BY     1. Hull       REVIEWED BY     I. Hull       G     G	DRILLING METHOD       Hand Auger       TOP OF CASING ELEVATION NA         BORING DIAMETER       2"       SCREENED INTERVAL       NA	TOP OF CASING ELEVATION NA				
BORINO DIAMETER     Z     SCREENED INTERVAL     NA       LOGGED BY     I.Hul     DEPTH TO WATER (Istencountered)     NA     Y       REVIEWED BY     R.Foss_PC.BT245     DEPTH TO WATER (Istencountered)     NA     Y       REMARKS     Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade     NA     Y       Image: State of the state of th	BORING DIAMETER 2" SCREENED INTERVAL NA					
LOGGED BY       L. Hull       DEPTH TO WATER (First Encountered)       NA       Velocity         REVIEWED BY       R. Foos, P5 87446       DEPTH TO WATER (First Encountered)       NA       Velocity         REMARKS       Utility cleared with an air knife-assisted vacuum fruck to 8 feet below grade       NA       Velocity         Image: Stand S						
REVENCE BY     R. Fos. FOS. F1455     DEPTH TO WATER (State)     NA     Yes       REMARKS     Ullity cleared with an airknife-assisted vacuum truck to 8 feet below grade     Well.     Main State       Image: State Stat	LOGGED BY I. Hull DEPTH TO WATER (First Encountered) NA	$\overline{\Delta}$				
REMARKE       Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade       Image: State of the state of t	REVIEWED BY R. Foss, PG #7445 DEPTH TO WATER (Static) NA	<u> </u>				
Image: State of the second	REMARKS Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade					
Image: second						
4     SSB3-15     -     -     SM     Sitty SAN2: prove, most: 55%, well graded sand. 40%, sitt, moder.10%, sitt, m	PID (ppm)     PID (ppm)       PID (ppm)	WELL DIAGRAM				
2 SS83.5 SS85.5 S S S S S S S S S S S S S S S S S S	4 SSB3-1.5 SM SMD: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated permeability.	A Native Soil				
Nerve of the second sec	2       SSB3-3       SSB3-3       SSB3-3       SSB3-5       GW       SSB3-5       SSB3-5	Portland Type     I/II Cement				
	2     SSB3-6     C     SSB3-6     C     SSB3-6     C     SSB3-6     SSB3-6 <th>Bottom of Boring @ 5.5 ft</th>	Bottom of Boring @ 5.5 ft				



WELL LOG (PID) 1:/CHEVRON/307233~1/BORING~1/307233 BORING LOGS.GPJ DEFAULT.GDT 5/15/08

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

CLIENT NAME JOB/SITE NAME LOCATION PROJECT NUMB DRILLER DRILLING METHO BORING DIAMET LOGGED BY REVIEWED BY REMARKS	Ch 30- 225 ER 312 RS OD Ha E. I E. I R. Util	evron En 7233 59 First S 2264 I Drilling nd Auger Namba Foss, PG ity cleare	treet, Liverm	Management Company ore, California 	BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED WELL DEVELOPMENT D GROUND SURFACE ELE TOP OF CASING ELEVA SCREENED INTERVAL DEPTH TO WATER (First DEPTH TO WATER (Stati	SSB4 01-Feb-08 01-Feb-08 ATE (YIELD) VATION TION_NA NA Encountered	NA Not Si I) NA NA		
PID (ppm) BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S. GRAPHIC LOG	LITHC	PLOGIC DESCRIPTION		CONTACT DEPTH (ft bgs	WEL	L DIAGRAM
	SSB4-1.5 SSB4-2.5 SSB4-4.5 SSB4-9		GW	Silty SAND: Brown; silt, 5% gravel; low pl permeability. Sandy GRAVEL with coarse gravel, 40% v non-plastic; high estin Refusal @ 9.5 fbg	moist; 55% well graded sam asticity; moderate estimated <u>h silt</u> :Brown; moist; 50% fin vell graded sand, 10% silt; mated permeability.	d, 40% j e to	2.0		<ul> <li>Native Soil</li> <li>Portland Type I/II Cement</li> <li>Bottom of Boring @ 9.5 ft</li> </ul>



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
BORING DIAMETER	2"	SCREENED INTERVAL NA
LOGGED BY	I. Hull	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 tr	ruck to 8 feet below grade

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
	2		SSB5-1.5			SM		Silty SAND: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated permeability.	3.0		<ul> <li>Native Soil</li> </ul>
	1		SSB5-3		  - 5	GW		Sandy GRAVEL with silt: Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability.	.0		<ul> <li>Portland Type</li> <li>I/II Cement</li> </ul>
	1 2		SSB5-5.5 SSB5-7						7.5		
								Refusal @ 7.5 fbg			Bottom of Boring @ 7.5 ft
8											
JLT.GDT 5/15/0											
<b>SS.GPJ DEFAI</b>											
33 BORING LO											
DRING~1\3072											
N\307233~1\BC											
ID) I:\CHEVRC											
WELL LOG (P											PAGE 1 OF 1



CLIENT NA JOB/SITE N LOCATION PROJECT I DRILLER DRILLING I BORING DI LOGGED B REVIEWED REMARKS	ME IAME NUMBER METHOD AMETER Y BY	Chev 30-7: 2259 3122 RSI I Hand 2" I. Hu R. Fo Utility	vron En 233 ) First S 664 Drilling d Auger II pss, PG y cleare	treet, L	ivermo	Aanagement Company	y       DORING/WELL NAME      OODD        DRILLING STARTED      O6-Feb-08        DRILLING COMPLETED      O6-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        NA      NA        DEPTH TO WATER (Static)      NA        NA      NA				
PID (ppm)	COUNTS SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHO	LOGIC DESCRIPTION		CONTACT DEPTH (ft bgs	WEL	L DIAGRAM
WELL LOG (PID) I:CHEVRON307233-1\BORING-1\307233 BORING LOGS.GPJ DEFAULT.GDT 5/15/08	SSB6-1.4 SSB6-3			GW		Silty SAND: Brown; r silt, 5% gravel; low pla permeability. Sandy GRAVEL with coarse gravel, 40% w non-plastic; high estin Refusal @ 5 fbg	noist; 55% well graded san asticity; moderate estimated salt:Brown; moist; 50% fin ell graded sand, 10% silt; nated permeability.	Id, 40% d	4.0		<ul> <li>Native Soil</li> <li>Portland Type I/II Cement</li> <li>Bottom of Boring @ 5 ft</li> </ul>



3

## **BORING/WELL LOG**

CLIENT	NAME	(	Chev	ron En	vironm	ental N	lanagement Company	BORING/WELL NAME	SSB7			
JOB/SIT		IE3	30-7	233				DRILLING STARTED	06-Feb-08			
LOCATI	ON	2	2259	First S	street, L	ivermo	ore, California	DRILLING COMPLETED	06-Feb-08			
PROJE	CT NUN	IBER3	3122	264				WELL DEVELOPMENT DATE (YIELD) NA				
DRILLE	R	(	Greg	g Drillir	ng & Te	esting,	C57 #485165	GROUND SURFACE ELEVATION Not Surveyed				
DRILLIN	IG MET	HOD H	land	d Auger				TOP OF CASING ELEVAT	TION NA			
BORING	G DIAM	ETER 2	2"					SCREENED INTERVAL	NA			
LOGGED BY J. Williams DEPTH TO WATER (First Encountered)							d) NA	. <u> </u>				
REVIEWED BY R. Foss, PG #7445 DEPTH TO WATER (Static)								c)	NA	<u> </u>		
REMAR	KS _	ι	Jtility	y cleare	ed with	an air-	knife-assisted vacuum tr	uck to 8 feet below grade				
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHO	IOLOGIC DESCRIPTION				
4 SSB7-1 0 SSB7-3 0 SSB7-5					SM GW		Silty SAND: Brown; silt, 5% gravel; low p permeability. Sandy GRAVEL wit coarse gravel, 40% non-plastic; high est	moist; 55% well graded sand lasticity; moderate estimated th silt:Brown; moist; 50% find well graded sand, 10% silt; imated permeability.	d, 40%	1.0	<ul> <li>Native Soil</li> <li>Portland Type I/II Cement</li> </ul>	
3		SSB7-7	<u>6</u> 2	-		. •				<b>∣</b> ∕.5		

Refusal @ 7.5 fbg

Bottom of Boring @ 7.5 ft



CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SSB8
JOB/SITE NAME	30-7233	DRILLING STARTED 01-Feb-08
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 01-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	I. Hull	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 tru	ick to 8 feet below grade





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
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA
REMARKS	Utility cleared with an air-knife-assisted vacuum tr	uck to 8 feet below grade





JOB/SITE NAME       30-7233       DRILLING STARTED       06-Feb-08         JOCATION       2259 First Street, Livermore, California       DRILLING COMPLETED       06-Feb-08         PROJECT NUMBER       312264       WELL DEVELOPMENT DATE (YIELD) NA         DRILLIRG       Gregg Drilling & Testing, C57 #485165       GROUND SURFACE ELEVATION       Not Surveyed         DRILLING METHOD       Hand Auger       TOP OF CASING ELEVATION NA       Not Surveyed         BORING DIAMETER       2"       SCREENED INTERVAL       NA         LOGGED BY       J. Williams       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       NA							  		
EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHO	LOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
-3 (*) -5 (*)		GW		Silty SAND: Brown; silt, 5% gravel; low pl permeability. Sandy GRAVEL with coarse gravel, 40% w non-plastic; high estir Refusal @ 9.5 fbg	moist; 55% well graded san asticity; moderate estimated <u>n silt</u> :Brown; moist; 50% fin /ell graded sand, 10% silt; nated permeability.	d, 40% d e to	9.5		<ul> <li>Native Soil</li> <li>Portland Type I/II Cement</li> <li>Bottom of</li> </ul>
)-	312: Gree Han 2" J. W R. F Utiliti	312264 Gregg Drillir Hand Auger 2" J. Williams R. Foss, PG Utility clearer Utility clearer 4 0 0 0 0 0 0 0 0 0 0 0 0 0	312264 Gregg Drilling & Te Hand Auger 2" J. Williams R. Foss, PG #7445 Utility cleared with Utility cleared with Utility cleared with G. G. G	312264 Gregg Drilling & Testing, C Hand Auger 2" J. Williams R. Foss, PG #7445 Utility cleared with an air-k Utility cleared with an air-k Utility cleared with an air-k 0-3 0-5 0-9 0-9 0-9 0-9 0-9 0-9 0-9 0-9	Lith Auger         Lith Colspan="2"         LITHO         SM         Silty SAND: Brown; 1         Silty SAND: Brown; 1         Silty SAND: Brown; 1         Seconse gravel; low pl         Permeability.         Sandy GRAVEL with coarse gravel, 40% w non-plastic; high esting         Permeability.         Permeability.         Permeability.         Permeability.         Permeability.	312264       WELL DEVELOPMENT D         Gregg Drilling & Testing, C57 #485165       GROUND SURFACE ELE         Hand Auger       TOP OF CASING ELEVAL         2"       SCREENED INTERVAL         J. Williams       DEPTH TO WATER (First         R. Foss, PG #7445       DEPTH TO WATER (Statt         Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade         Image: Deptice of the second secon	312264       WELL DEVELOPMENT DATE (YIELD)         Gregg Drilling & Testing, C57 #485165       GROUND SURFACE ELEVATION         Hand Auger       TOP OF CASING ELEVATION NA         2"       SCREENED INTERVAL       NA         J. Williams       DEPTH TO WATER (First Encountered DEPTH TO WATER (Static)       DEPTH TO WATER (Static)         Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade       Silty SAND: Brown; moist; 55% well graded sand, 40% silt, 5% gravel; low plasticity; moderate estimated permeability.         Sandy GRAVEL with silt:Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability.         9-9       GW         Refusal @ 9.5 fbg	312264       WELL DEVELOPMENT DATE (YIELD) NA         Gregg Drilling & Testing, C57 #485165       GROUND SURFACE ELEVATION NA         2"       TOP OF CASING ELEVATION NA         2"       SCREENED INTERVAL NA         J. Williams       DEPTH TO WATER (First Encountered) NA         R. Foss, PG #7445       DEPTH TO WATER (Static) NA         Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade       NA         Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade       Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade         Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade       Some set the s	MELL DEVELOPMENT DATE (YIELD) NA       Gregg Drilling & Testing, C57 #485165     GROUND SURFACE ELEVATION     Not Surveyed       Hand Auger     TOP OF CASING ELEVATION NA     SCREENED INTERVAL     NA       2"     SCREENED INTERVAL     NA     NA       2"     DEPTH TO WATER (First Encountered)     NA       3. Williams     DEPTH TO WATER (Static)     NA       R. Foss, PG #7445     DEPTH TO WATER (Static)     NA       Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade     NA       Utility cleared with an air-knife-assisted vacuum truck to 8 feet below grade     VEL       Value grade     Silty SAND: Brown; moist; 55% well graded sand, 40%     Silt, 5% gravel; low plasticity; moderate estimated       13     Sandy GRAVEL with silt; Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability.     2.0       14     Sandy GRAVEL with silt; Brown; moist; 50% fine to coarse gravel, 40% well graded sand, 10% silt; non-plastic; high estimated permeability.     9.5



CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME SSB11
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
REVIEWED BY	R. Foss, PG #7445	DEPTH TO WATER (Static) NA
REMARKS	Utility cleared with an air-knife-assisted vacuum tru	ick to 8 feet below grade





JOB	-												
JOB/SITE NAME				DRILLING STARTED31-Jan-08									
LOCATION 2259 First Street, Livermore, California							.ivermo	ore, California	DRILLING COMPLETED 31-Jan-08				
PRO	JECT		BER3	122	64				WELL DEVELOPMENT D	ATE (YIELD)	NA		
DRILLER Vironex, C57 #705927							927		GROUND SURFACE ELE	VATION _	Not S	urveyed	
DRIL	LING	6 MET	HOD -	lanc	Auger				TOP OF CASING ELEVA	TION NA			
BOR	RING	DIAME	<b>TER</b> 2						SCREENED INTERVAL	NA			
LOG	GED	BY	Ι.	Hu					DEPTH TO WATER (First	t Encountere	<b>d)</b> NA	1	<u> </u>
REV	IEWE	DBY	F	R. Fc	oss, PG	#7445	5		DEPTH TO WATER (Stat	ic)	NA	4	<u> </u>
REM	IARK	s _	L	Jtility	/ cleare	d with	an air-	knife-assisted vacuum tr	uck to 8 feet below grade				
PID (ppm)		BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHO	DLOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
						SM		<u>Silty SAND</u> : Brown; silt, 5% gravel; low p	moist; 55% well graded san lasticity; moderate estimated	d, 40% d			
							┝┕┫	permeability Sandy GRAVEL wit	h silt: Brown: moist: 50% fin	e to	2.0		I/II Cement
								coarse gravel, 40%	well graded sand, 10% silt;	0.00			- Rontonito Soal
								non-plastic; high est	mated permeability.				
0			VP1-4.5		- 5 -	GW							Sand #2/12
													I/II Cement
			VP1-8								8.5		- Dentenite Oral
			110								1		Bentonite Seal
					10			Pofucal @ 9.5 fbg					<ul> <li>Monterey Sand #2/12</li> </ul>
								Refusal @ 0.5 lbg					Vapor well
Well Log (PID) I:CHEVRON/307233-71/BORING-1/307233 BORING LOGS GPJ DEFAULT.GDT 5/15/08													Vapor well installed past Bothog of Revision of the root to total depth, installing well, and then removing rod.



WELL LOG (PID) I:/CHEVRON/307233~1/BORING~1/307233 BORING LOGS.GPJ DEFAULT.GDT 5/15/08

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						lanagement Company	BORING/WELL NAME VP2					
JOB/SITE NAME					DRILLING STARTED 01-Feb-08							
LOCATI	ON	22	259	First S	treet, L	ivermo	ore, California	DRILLING COMPLETED 01-Feb-08				
PROJEC		<b>BER</b> 3'	122	64				WELL DEVELOPMENT D	ATE (YIELD)	NA		
DRILLER Vironex, C57 #705927							GROUND SURFACE ELEVATION Not Surveyed					
DRILLIN	IG MET	HOD H	and	I Auger	•			TOP OF CASING ELEVA	TION NA			
BORING		ETER <u>2'</u>	' 					SCREENED INTERVAL	NA			
LOGGE	DBY	<u> </u>	Hul					DEPTH TO WATER (First	Encountered	1) NA		
REVIEW	ED BY	R	. Fc	oss, PG	; #7445			DEPTH TO WATER (Stati	c)	<u> </u>	۱ <u> </u>	<u> </u>
REMAR	KS _	U	tility	/ cleare	ed with	an air-	knife-assisted vacuum tru	ick to 8 feet below grade				
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHC	LOGIC DESCRIPTION		CONTACT DEPTH (ft bgs)	WEL	L DIAGRAM
					SM		Sandy GRAVEL with	moist; 55% well graded sam asticity; moderate estimated	d, 40%	3.0		<ul> <li>Portland Type I/II Cement</li> </ul>
0		VP2-4.5		 - 5	GW		coarse gravel, 40% v non-plastic; high esti	vell graded sand, 10% silt; mated permeability.	eto			<ul> <li>Bentonite Seal</li> <li>Monterey Sand #2/12</li> <li>Portland Type</li> </ul>
0		VP2-9.5		  10	* - -					10.0		I/II Cement ◄ Bentonite Seal ◄ Monterey Sand #2/12
												Bottom of Boring @ 10 ft



CLIENT NAME Chevron Environmental Management Company					lanagement Company	BORING/WELL NAME VP3					
JOB/SIT	E NAM	E <u>3</u>	0-72	233				DRILLING STARTED 01-Feb-08			
LOCATI	ON	2	259	First S	street, L	.ivermo	ore, California	DRILLING COMPLETED 01-Feb-08			
PROJEC	CT NUM	BER3	122	64				WELL DEVELOPMENT DATE (YIELD) NA			
DRILLER Vironex, C57 #705927						927		GROUND SURFACE ELEVATION Not Surveyed			urveyed
DRILLIN	IG MET	HOD⊢	land	I Auger				TOP OF CASING ELEVATION N	A		
BORING	DIAME	ETER 2	"					SCREENED INTERVAL	A		
LOGGEI	DBY	S	5. Mo	cNaboe	9			DEPTH TO WATER (First Encou	ntered)_	NA	$\overline{\Delta}$
REVIEW	ED BY	F	R. Fo	oss, PG	6 #7445			DEPTH TO WATER (Static)	_	NA	. <u> </u>
REMAR	KS _	L	Jtility	/ cleare	d with	an air-	knife-assisted vacuum tru	ick to 8 feet below grade			
					I					s)	
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHC	LOGIC DESCRIPTION		DEPTH (ft bg	WELL DIAGRAM
			ł		SM		<u>Silty SAND</u> : Brown; silt, 5% gravel; low pl permeability.	moist; 55% well graded sand, 40% asticity; moderate estimated	2	0	✓ Portland Type
0		VP3-4.5 VP3-8		 - 5    - 10	GW		Sandy GRAVEL wit coarse gravel, 40% v non-plastic; high esti	<u>h silt</u> :Brown; moist; 50% fine to /ell graded sand, 10% silt; mated permeability.		.5	Bentonite Seal     Monterey     Sand #2/12     Portland Type     //II Cement     Bentonite Seal     Monterey     Sand #2/12     Vapor well     installed past     Beven ev     Beven e
											depth, installing well, and then removing rod.



# Site: FMR. TEXACO 30-7233

Engineer: C.EVANS

Sounding: CPT-01

Date: 2/5/2008 08:10



Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



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

## **BORING / WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME CPT3
JOB/SITE NAME	Chevron site #30-7233	DRILLING STARTED 23-Oct-08
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED 23-Oct-08
PROJECT NUMBER	312264	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEVATION NA
DRILLING METHOD	Cone Penetration Testing (CPT)	TOP OF CASING ELEVATION NA
BORING DIAMETER	2"	SCREENED INTERVALS NA
LOGGED BY	Belew Yifru	DEPTH TO WATER (First Encountered) NA
REVIEWED BY	Brandon S. Wilken, P.G. #7564	DEPTH TO WATER (Static) NA
REMARKS	Utility cleared with an air-knife-assisted vacuum tr	uck to 8 feet below grade

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW COUNTS EXTENT U.S.C.S. DEPTH (fbg) GRAPHIC LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT 1.0 Silty GRAVEL (roadbase) GM 2.0 **<u>Silty GRAVEL</u>**: Light brown; damp; 25% silt, 75% fine to coarse gravel; non-plastic; high estimated permeability. Portland Type I/II Cement 5 CPT3- 5 GM 0 ) WELL LOG (PID) I:\CHEVRON\3122-\312264~1\31B354~1\312264-BORING LOGS.GPJ DEFAULT.GDT 2/19/09 8.0 Bottom of Boring @ 8 fbg Boring log continues in Gregg CPT report



Avg. Interval: 0.328 (ft)



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## **BORING / WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	CPT4
JOB/SITE NAME	Chevron site #30-7233	DRILLING STARTED	24-Oct-08
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED	24-Oct-08
PROJECT NUMBER	312264	WELL DEVELOPMENT D	ATE (YIELD) NA
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELE	VATION NA
DRILLING METHOD	Cone Penetration Testing (CPT)	TOP OF CASING ELEVAT	<b>NA</b>
BORING DIAMETER	2"	SCREENED INTERVALS	_NA
LOGGED BY	Belew Yifru	DEPTH TO WATER (First	Encountered) NA
REVIEWED BY	Brandon S. Wilken, P.G. #7564	DEPTH TO WATER (Stati	c) NA 💆
REMARKS	Utility cleared with an air-knife-assisted vacuum tr	uck to 8 feet below grade	

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW COUNTS EXTENT U.S.C.S. DEPTH (fbg) GRAPHIC LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT 1.0 Sandy GRAVEL with cobbles and silt:Light to dark brown; damp; 10% silt, 25% fine to coarse sand, 65% fine to coarse gravel; non-plastic; high estimated permeability. Portland Type I/II Cement GW 5 CPT4- 5 0 ) WELL LOG (PID) I:\CHEVRON\3122-\312264~1\31B354~1\312264-BORING LOGS.GPJ DEFAULT.GDT 2/19/09 8.0 Bottom of Boring @ 8 fbg Boring log continues in Gregg CPT report

PAGE 1 OF 1



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## **BORING / WELL LOG**

CLIENT NAME	Chevron Environmental Management Company	BORING/WELL NAME	CPT5
JOB/SITE NAME	Chevron site #30-7233	DRILLING STARTED	31-Oct-08
LOCATION	2259 First Street, Livermore, California	DRILLING COMPLETED	31-Oct-08
PROJECT NUMBER	312264	WELL DEVELOPMENT DA	TE (YIELD) NA
DRILLER	Gregg Drilling & Testing, C57 #485165	GROUND SURFACE ELEV	ATION NA
DRILLING METHOD	Cone Penetration Testing (CPT)	TOP OF CASING ELEVATI	<b>ON</b>
BORING DIAMETER	2"	SCREENED INTERVALS	_NA
LOGGED BY	Belew Yifru	DEPTH TO WATER (First I	Encountered) NA 💆
REVIEWED BY	Brandon S. Wilken, P.G. #7564	DEPTH TO WATER (Static	) <u>NA </u>
REMARKS	Utility cleared with an air-knife-assisted vacuum tr	uck to 8 feet below grade	

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW COUNTS EXTENT U.S.C.S. DEPTH (fbg) GRAPHIC LOG LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT 1.0 Sandy GRAVEL with cobbles and silt:Light to dark brown; damp; 10% silt, 35% fine to coarse sand, 55% fine to coarse gravel; non-plastic; high estimated permeability. Portland Type I/II Cement GW 5 CPT5-5 0 ) WELL LOG (PID) I:\CHEVRON\3122-\312264~1\31B354~1\312264-BORING LOGS.GPJ DEFAULT.GDT 2/19/09 8.0 Bottom of Boring @ 8 fbg Boring log continues in Gregg CPT report



APPENDIX E

GREGG CPT SITE INVESTIGATION REPORT



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)	$\square$
2	Pore Pressure Dissipation Tests	(PPD)	$\square$
3	Seismic Cone Penetration Tests	(SCPTU)	
4	Resistivity Cone Penetration Tests	(RCPTU)	
5	UVIF Cone Penetration Tests	(UVIFCPTU)	
6	Groundwater Sampling	(GWS)	
7	Soil Sampling	(SS)	$\bowtie$
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	Date	Termination Depth	Depth of Groundwater	Depth of Soil Samples	Depth of Pore Pressure
Identification		(Feet)	Samples (Feet)	(Feet)	Dissipation Tests (Feet)
CPT-01	2/05/08	55	46	21, 36	-
CPT-02	2/04/08	55	35	22, 30, 35	21.7, 32.5, 39.4, 45.1,
					51.3, 55.6



GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

## Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through <a href="http://www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html">www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html</a>, Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.

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Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

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

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53<sup>rd</sup> Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

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



# Site: FMR. TEXACO 30-7233

Engineer: C.EVANS

Sounding: CPT-01

Date: 2/5/2008 08:10



Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



#### GREGG DRILLING & TESTING, INC. GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

November 7, 2008

Conestoga-Rovers Associates Attn: Charlette Evans 5900 Hollis St., Suite A Emeryville, California 94608

Subject: CPT Site Investigation Chevron 30-7233 Livermore, California GREGG Project Number: 08-283MA

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)
2	Pore Pressure Dissipation Tests (PPD)
3	Seismic Cone Penetration Tests (SCPTU)
4	Resistivity Cone Penetration Tests (RCPTU)
5	UVOST Laser Induced Fluorescence (UVOST)
6	Groundwater Sampling (GWS)
7	Soil Sampling (SS)
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

> 950 Howe Rd • Martinez, California 94553 • (925) 313-5800 • FAX (925) 313-0302 OTHER OFFICES: LOS ANGELES • HOUSTON • SOUTH CAROLINA www.greggdrilling.com



### 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)
CPT-03	11/04/08	60	32NR, 44NR, 60	18, 35, 55	52.3
CPT-04	11/05/08	80	58, 64, 72NR	50	55.8, 66.1
CPT-05	11/03/08	80	59, 72	51, 67NR	-
	11/00/00				
······································					
· · · · · · · · · · · · · · · · · · ·					
					· · · · · · · · · · · · · · · · · · ·

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Avg. Interval: 0.328 (ft)



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## **GREGG DRILLING & TESTING**

Pore Pressure Dissipation Test

Sounding:CPT3Depth:52.329Site:CHEVRON 30-7233Engineer:I. HULL



Time (seconds)


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## **GREGG DRILLING & TESTING**

Pore Pressure Dissipation Test

Sounding:CPT4Depth:55.774Site:CHEVRON 30-7233Engineer:I. HULL



Time (seconds)



 $\overbrace{\quad a \in \mathbb{Z}}$ 

# **GREGG DRILLING & TESTING**

Pore Pressure Dissipation Test

Sounding:CPT4Depth:66.109Site:CHEVRON 30-7233Engineer:I. HULL



Time (seconds)

# **APPENDIX CPT**



## Cone Penetration Testing Procedure (CPT)

Gregg Drilling carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*. The soundings were conducted using a 20 ton capacity cone with a tip area of 15 cm<sup>2</sup> and a friction sleeve area of 225 cm<sup>2</sup>. The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.80.

The cone takes measurements of cone bearing ( $q_c$ ), sleeve friction ( $f_s$ ) and penetration pore water pressure ( $u_2$ ) at 5cm intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored on disk for further analysis and reference. All CPT soundings are performed in accordance with revised (2002) ASTM standards (D 5778-95).

The cone also contains a porous filter element located directly behind the cone tip  $(u_2)$ , *Figure CPT*. It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain penetration pore pressure as the cone is advanced as well as Pore Pressure Dissipation Tests (PPDT's) during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with silicon oil under vacuum pressure to ensure accurate and fast dissipation.



Figure CPT

When the soundings are complete, the test holes are grouted using a Gregg support rig. The grouting procedures generally consist of pushing a hollow CPT rod with a "knock out" plug to the termination depth of the test hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.



## **Cone Penetration Test Data & Interpretation**

The Cone Penetration Test (CPT) data collected from your site are presented in graphical form in the attached report. The plots include interpreted Soil Behavior Type (SBT) based on the charts described by Robertson (1990). Typical plots display SBT based on the non-normalized charts of Robertson et al (1986). For CPT soundings extending greater than 50 feet, we recommend the use of the normalized charts of Robertson (1990) which can be displayed as SBTn, upon request. The report also includes spreadsheet output of computer calculations of basic interpretation in terms of SBT and SBTn and various geotechnical parameters using current published correlations based on the comprehensive review by Lunne, Robertson and Powell (1997), as well as recent updates by Professor Robertson. The interpretations are presented only as a guide for geotechnical use and should be carefully reviewed. Gregg Drilling & Testing Inc. do not warranty the correctness or the applicability of any of the geotechnical parameters interpreted by the software and do not assume any liability for any use of the results in any design or review. The user should be fully aware of the techniques and limitations of any method used in the software.

Some interpretation methods require input of the groundwater level to calculate vertical effective stress. An estimate of the in-situ groundwater level has been made based on field observations and/or CPT results, but should be verified by the user.

A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Note that it is not always possible to clearly identify a soil type based solely on  $q_t$ ,  $f_s$ , and  $u_2$ . In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the correct soil behavior type.





(After Robertson, et al., 1986)

Figure SBT

# **APPENDIX PPDT**

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## Pore Pressure Dissipation Tests (PPDT)

Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPDT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (u) with time is measured behind the tip of the cone and recorded by a computer system.

Pore pressure dissipation data can be interpreted to provide estimates of:

- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation (c<sub>h</sub>)
- In situ horizontal coefficient of permeability  $(k_h)$

In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until such time as there is no variation in pore pressure with time. Figure PPDT. This time is commonly referred to as  $t_{100}$ , the point at which 100% of the excess pore pressure has dissipated.

A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1992.

A summary of the pore pressure dissipation tests is summarized in Table 1.



Figure PPDT

**APPENDIX GWS** 

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## Groundwater Sampling (GWS)

Gregg Drilling conducts groundwater sampling using a Hydropunch<sup>®</sup> type groundwater sampler, *Figure GWS*. The groundwater sampler has a retrievable stainless steel or disposable PVC screen with steel drop off tip. This allows for samples to be taken at multiple depth intervals within the same sounding location. In areas of slower water recharge, provisions may be made to set temporary PVC well screens during sampling to allow the drill rig to advance to the next sample location while the groundwater is allowed to infiltrate.

The groundwater sampler operates by advancing 1 <sup>3</sup>/<sub>4</sub> inch hollow push rods with the filter tip in a closed configuration to the base of the desired sampling interval. Once at the desired sample depth, the push rods are retracted; exposing the encased filter screen and allowing groundwater to infiltrate hydrostatically from the formation into the inlet screen. A small diameter bailer (approximately 1/2 or 3/4 inch) is lowered through the push rods into the screen section for sample collection. The number of downhole trips with the bailer and time necessary to complete the sample collection at each depth interval is a function of sampling protocols, volume requirements, and the yield characteristics and storage capacity of the formation. Upon completion of sample collection, the push rods and sampler, with the exception of the PVC screen and steel drop off tip are retrieved to the ground surface, decontaminated and prepared for the next sampling event.

A summary of the groundwater samples collected, including the sampling date, depth and location identification, is presented in Table 1 and the corresponding CPT plot.



Figure GWS

For a detailed reference on direct push groundwater sampling, refer to Zemo et. al., 1992.

# **APPENDIX SS**



## Soil Sampling (SS)

Gregg Drilling uses a piston-type sampler to obtain relatively undisturbed soil samples without generating any soil cuttings, Figure SS. Two different types of samplers (12 and 18 inch) are used depending on the soil type and density. The soil sampler is initially pushed in a "closed" position to the desired sampling interval using a hydraulic rig. Keeping the sampler closed minimizes the potential of cross contamination caused by sloughing. The inner tip of the sampler is then retracted 12 inches (or 18 inches if using the longer sampler) leaving a hollow soil sampler with two inner 1<sup>1</sup>/<sub>4</sub> inch diameter by 6 inch or four 3 inch long soil sample tubes. If using the 18 inch sampler, two 11/2 inch diameter by 6 inch long tubes will be exposed. The hollow sampler is then pushed in a locked "open" position to collect a soil sample. The filled sampler and push rods are then retrieved to the ground surface. Because the soil enters the sampler at a constant rate, the opportunity for 100% recovery is increased. For environmental analysis, the soil sample tube ends are sealed with Teflon and plastic caps. Often, a longer "split tube" can be used for geotechnical sampling.

For a detailed reference on direct push soil sampling, refer to Robertson et al, 1998.



Figure SS

A summary of the soil samples collected, including the sampling date, depth and location identification, is presented in Table 1.



GREGG DRILLING & TESTING, INC.

### GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

## **Bibliography**

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

APPENDIX F

LABORATORY ANALYTICAL REPORTS FOR SOIL AND GRAB-GROUNDWATER





#### 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.

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

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,

Tomoyten . . i

Valerie L. Tomayko Group Leader





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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 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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
07361	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxvgenates+EDC+EDB	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to includes		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
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	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	02/08/2008 03:36	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. SW5273884		Group No. 1076	371	
CPT1-S Facili 2259 F Collect	-21-080205 Grab Soil ty# 307233 CETE irst St-Livermore T06003 ted:02/05/2008 10:50	<b>96622 CPT1</b> by IH	P	account Number: 1	.0880	
Submit Reporte Discare	ted: 02/07/2008 09:20 ed: 02/18/2008 at 22:59 d: 03/20/2008		6	ChevronTexaco 5001 Bollinger Ca San Ramon CA 9458	nyon Rd L4310 33	
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	d 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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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

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	100.	4.0	mg/kg	1
02516	TPH Fuels by GC (Soils)					
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	02/08/2008 04:16	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. SW5273885		Group No. 1076	371	
CPT1-S Facili 2259 F Collec	-36-080205 Grab Soil ty# 307233 CETE irst St-Livermore T06001 ted:02/05/2008 13:08	<b>96622 CPT1</b> by IH	A	ccount Number: 1	0880	
Submit Report Discar	ted: 02/07/2008 09:20 ed: 02/18/2008 at 22:59 d: 03/20/2008		C] 6 Si	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
CP136						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/14/2008 14:07	Diane V Do	1
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	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



# **Analysis Report**

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### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/18/08 at 10:59 PM Group Number: 1076371

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 <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08038A02A TPH-GRO - Soils	Sample num N.D.	per(s): 52 1.0	73884-527 mg/kg	3885 93		67-119		
Batch number: 080430010A TPH-DRO by 8015B w/Silica Gel	Sample numb N.D.	per(s): 52 4.0	73884-527 mg/kg	3885 98	100	71-109	2	20
Batch number: 080440019A Total TPH TPH Motor Oil C16-C36	Sample num N.D. N.D.	per(s): 52 10. 10.	73884-527 mg/kg mg/kg	3885 90	93	66-113	3	20
Batch number: B080442AA	Sample numb	per(s): 52	73884-527	3885				
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	96	95	72-117	1	30
di-Isopropyl ether	N.D.	0.001	mg/kg	91	90	72-120	2	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	95	91	67-124	5	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	95	92	73-116	3	30
t-Butyl alcohol	N.D.	0.020	mg/kg	104	101	66-146	3	30
Benzene	N.D.	0.0005	mg/kg	96	90	84-115	6	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	102	99	76-135	3	30
Toluene	N.D.	0.001	mg/kg	92	87	81-116	6	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	97	93	77-114	4	30
Ethylbenzene	N.D.	0.001	mg/kg	89	83	82-115	6	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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 08038A02A TPH-GRO - Soils	Sample r 74	umber(s) 80	: 5273884- 39-118	-527388 8	5 UNSPK	C: P266499			
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 Xylene (Total)	Sample r 46* 48* 45* 40* 63* 56* 62 52* 60 61	number(s)	: 5273884- 59-119 58-113 60-112 63-112 50-143 66-112 62-130 58-116 66-108 54-116 52-117	- 527388	5 UNSPK	: P276717			

\*- 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 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

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
<u>Analysis Name</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	RPD	MAX	Conc	Conc	<u>RPD</u>	Max

### 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 92 5273884 92 5273885 527385 52738	5273884	86			
Blank 91 LCS 101 MS 83 MSD 87 Limits: 61-122 Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080430010A Orthoterphenyl 5273884 94 5273884 94 5273884 94 5273885 96 Blank 106 LCSD 121 Limits: 59-129 Analysis Name: TPH Fuels by GC (Soils) Batch number: 080440019A Chlorobenzene Orthoterphenyl 5273884 92 103 5273884 92 103 LCSD 105 Blank 95 103 LCSD 105 Blank 95 103 LCSD 105 Blank 95 103 LCSD 93 106 Limits: 37-125 47-145 Analysis Name: ETEX+5 Oxygenates+EDC+EDB Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer 5273884 99 100 96 84	5273885	93			
LCS       101         MS       83         MSD       87         Limits:       61-122         Analysis Name: TFH-DRO by 8015B w/Silica Gel         Batch number:       080430010A         Orthoterphenyl         5273884       94         5273884       94         S273855       96         Blank       106         LCSD       121         Limits:       59-129         Analysis Name: TPH Fuels by GC (Soils)         Batch number:       080440019A         Chlorobenzene       Orthoterphenyl         5273884       92         103       5273884         5273884       92         105       103         LCSD       93         106       103         LCSD       93         106       104         LCSD       93         106       103         Limits:       37-125         47-145         Analysis Name: ETEX+5 Oxygenates+EDC+EDB         Batch number:       100         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8         4-Bromofluorobenzer	Blank	91			
MS       83 MSD       87         Limits:       61-122         Analysis Name:       TPH-DRO by 8015B w/Silica Gel         Batch number:       080430010A Orthoterphenyl         5273884       94 5273885         5273884       94 5273885         S273884       94 5273884         LCSD       119 LCSD         LCSD       121         Limits:       59-129         Analysis Name: TPH Fuels by GC (Soils) Batch number:       080440019A Orthoterphenyl         5273884       92         103       5273884         5273884       92         105       103 LCSD         S115       104 LCSD         LCSD       93         106       106         Limits:       37-125       47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number:       Batch number:       1,2-Dichloroethane-d4         Toluene-d8       4-Bromofluorobenzer         5273884       99       100       96       84	LCS	101			
MED       87         Limits:       61-122         Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080430010A Orthoterphenyl	MG	83			
Limits: 61-122 Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080430010A Orthoterphenyl 5273884 94 5273884 94 5273885 96 Blank 106 LCS 119 LCSD 121 Limits: 59-129 Analysis Name: TPH Fuels by GC (Soils) Batch number: 080440019A Chlorobenzene Orthoterphenyl 5273884 92 103 5273885 97 105 Blank 95 103 LCS 115 104 LCSD 93 106 Limits: 37-125 47-145 Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer 5273884 92 100 96 84	MSD	87			
Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080430010A Orthoterphenyl 5273884 94 5273885 96 Blank 106 LCS 119 LCSD 121 Limits: 59-129 Analysis Name: TPH Fuels by GC (Soils) Batch number: 080440019A Chlorobenzene Orthoterphenyl 5273884 92 103 5273884 92 103 5273885 97 105 Blank 95 103 LCSD 93 106 Limits: 37-125 47-145 Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: 8080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer	Limits:	61-122			
Batch number: 080430010Å Orthoterphenyl       9         5273884       94         5273885       96         Blank       106         LCS       119         LCSD       121         Limits:       59-129         Analysis Name: TPH Fuels by GC (Soils) Batch number: 080440019A Chlorobenzene       Orthoterphenyl         5273884       92         103       5273884         5273885       97         105       103         LCSD       115         LCSD       103         LCSD       115         104       LCSD         LCSD       93         106       Limits:         X7-125       47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Batch number: 8080442AA       Dibromofluoromethane         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzer	Analysis N	Iame: TPH-DRO by 8015B w/S	ilica Gel		
Orthoterphenyl           5273884         94           5273885         96           Blank         106           LCS         119           LCSD         121           Limits:         59-129           Analysis Name: TPH Fuels by GC (Soils)           Batch number:         080440019A           Chlorobenzene         Orthoterphenyl           5273884         92           103         105           Blank         95           93         106           LCSD         104           LCSD         93           106         103           LCSD         104           LCSD         93           106         104           LCSD         93           106         106           Limits:         37-125         47-145           Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Horomofluoromethane           Batch number: 8080442AA         Dibromofluoromethane         1, 2-Dichloroethane-d4           Toluene-d8         4-Bromofluorobenzer           5273884         99         100         96	Batch numb	er: 080430010A			
5273884       94         5273885       96         Blank       106         LCS       119         LCSD       121         Limits:       59-129         Analysis Name: TPH Fuels by GC (Soils)         Batch number:       080440019A         Chlorobenzene       Orthoterphenyl         5273884       92         103       5273885         5273885       97         105       103         LCSD       115         LCSD       103         LCSD       93         LCSD       93         LCSD       93         Limits:       37-125         A7-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Batch number:       B00442AA         Dibromofluoromethane       1, 2-Dichloroethane-d4       Toluene-d8         4-Bromofluorobenzer       5273884       99       100		Orthoterphenyl			
5273885       96         Blank       106         LCS       119         LCSD       121         Limits:       59-129         Analysis Name: TPH Fuels by GC (Soils)         Batch number:       080440019A         Chlorobenzene       Orthoterphenyl         5273884       92         105         Blank       95         105         Blank       95         103         5273885       97         115       103         LCSD       13         LCSD       103         LCSD       103         LCSD       103         LCSD       103         LCSD       103         LCSD       103         LCSD       104         LCSD       106         Limits:       37-125         47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Batch number: B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4         Toluene-d8       4-Bromofluorobenzer         5273884       99       100	5273884	94			
Blank       106         LCSD       119         LCSD       121         Limits:       59-129         Analysis Name: TPH Fuels by GC (Soils)         Batch number:       080440019A         Chlorobenzene       Orthoterphenyl         5273884       92       103         5273885       97       105         Blank       95       103         LCSD       93       106         Limits:       37-125       47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       Batch number: B0804422A         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5273884       99       100       96       84	5273885	96			
LCS 119 LCSD 121 Limits: 59-129 Analysis Name: TPH Fuels by GC (Soils) Batch number: 080440019A Chlorobenzene Orthoterphenyl 5273884 92 103 5273885 97 105 Blank 95 103 LCS 115 104 LCSD 93 106 Limits: 37-125 47-145 Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer 5273884 99 100 96 84	Blank	106			
LCSD 121 Limits: 59-129 Analysis Name: TPH Fuels by GC (Soils) Batch number: 080440019A Chlorobenzene Orthoterphenyl 5273884 92 103 5273885 97 105 Blank 95 103 LCS 115 104 LCSD 93 106 Limits: 37-125 47-145 Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer 5273884 99 100 96 84	LCS	119			
Limits: 59-129 Analysis Name: TPH Fuels by GC (Soils) Batch number: 080440019A Chlorobenzene Orthoterphenyl 5273884 92 103 5273885 97 105 Blank 95 103 LCS 115 104 LCSD 93 106 Limits: 37-125 47-145 Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer 5273884 99 100 96 84	LCSD	121			
Analysis Name: TPH Fuels by GC (Soils)         Batch number: 080440019A         Chlorobenzene       Orthoterphenyl         5273884       92       103         5273885       97       105         Blank       95       103         LCS       115       104         LCSD       93       106         Limits:       37-125       47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       Batch number: B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzer         5273884       99       100       96       84	Limits:	59-129			
Analysis Name: TPH Fuels by GC (Soils)         Batch number: 080440019A         Chlorobenzene         5273884       92         103         5273885       97         Blank       95         103         LCS       115         LCSD       93         Limits:       37-125         Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Batch number: B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4         Toluene-d8       4-Bromofluorobenzer         5273884       99         100       96					
Batch Hulbel: Orderotina ChlorobenzeneOrthoterphenyl527388492103527388597105Blank95103LCS115104LCSD93106Limits:37-12547-145Analysis Name: BTEX+5 Oxygenates+EDC+EDBBatch number: B080442AA Dibromofluoromethane1,2-Dichloroethane-d4Toluene-d84-Bromofluorobenzer5273884991009684	Analysis N	Jame: TPH Fuels by GC (Soi	ls)		
5273884       92       103         5273885       97       105         Blank       95       103         LCS       115       104         LCSD       93       106         Limits:       37-125       47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       Batch number: B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzer         5273884       99       100       96       84	Dateir Iraila	Chlorobenzene	Orthoterphenyl		
5273885       97       105         Blank       95       103         LCS       115       104         LCSD       93       106         Limits:       37-125       47-145         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB         Batch number:       B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzer         5273884       99       100       96       84	5273884	92	103		
Blank       95       103         LCS       115       104         LCSD       93       106         Limits:       37-125       47-145         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB         Batch number:       B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzer         5273884       99       100       96       84	5273885	97	105		
LCS       115       104         LCSD       93       106         Limits:       37-125       47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       Batch number: B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzer         5273884       99       100       96       84	Blank	95	103		
LCSD       93       106         Limits:       37-125       47-145         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       Batch number: B080442AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzer         5273884       99       100       96       84	LCS	115	104		
Limits: 37-125 47-145 Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer 5273884 99 100 96 84	LCSD	93	106		
Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer	Limits:	37-125	47-145		
Batch number: B080442AA Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer 5273884 99 100 96 84	Analysis N	Jame: BTEX+5 Oxygenates+ED	C+EDB		
Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzer	Batch numb	er: B080442AA			
5273884 99 100 96 84		Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
	5273884	99	100	96	84
5273885 97 109 98 84	5273885	97	109	98	84
Blank 102 104 95 82	Blank	102	104	95	82

\*- Outside of specification

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





Page 3 of 3

## Quality Control Summary

Client Name: ChevronTexaco Reported: 02/18/08 at 10:59 PM Group Number: 1076371

	- , -,	Surrogate Qua	ality 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

Where quality is a	Labor science.	atories	C	)2	D50	8-11	l	A	cct. #	⊧ <u>1</u> (	<u>188</u>	30	_ S	ampi	For L e #: naly	anca Sa /ses	Req	ueste	tories u 1 - 8 1 d	ise on S	"scr#:107637 ]	<u>'/</u>
Facility #: 30-723	3 CA	HL)						Т							Pres	erva	tion	Codes	3		Preservative Code	s
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Chevron PM: T . Rot	30			Consult	tant CPA	·	<u></u>						eanul		S.						$S = H_2SO_4$ $O = Other$	
Consultant/Office: E	NERY	ULE	(A	, en our	<u></u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>			ners			Gel C		S.						J value reporting needed	
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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
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

## **Inorganic Qualifiers**

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

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

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

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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.

<u>Client Description</u> CPT2-S-22-080204 Grab Soil CPT2-S-30-080204 Grab Soil CPT2-S-35-080204 Grab Soil

ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Lancaster Labs Number 5272235 5272236 5272237

Attn: Charlotte Evans Attn: I Hull





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

Respectfully Submitted,

Ausan M Goshert

Susan M. Goshert Group Leader





Page 1 of 2

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 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

#### CPT22

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
07361	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	k area compari mix calibratic racontane) nor	son of the sample on in a range that mal hydrocarbons.	pattern to includes		
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	Chro	nicle		
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





Page 2 of 2

Lancas	ter Laboratories Sample	No. SW5272235		Group No. 1076	5102	
CPT2-S Facili 2259 F Collec	-22-080204 Grab Soil ty# 307233 CETE irst St-Livermore T06003 ted:02/04/2008 12:15	.96622 CPT2 by IH	A	account Number: 1	.0880	
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/18/2008 at 10:01 d: 03/20/2008		C 6 5	ChevronTexaco 5001 Bollinger Ca San Ramon CA 9458	anyon Rd L4310 33	
CPT22						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	2	02/08/2008 13:18	Diane V Do	1
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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
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	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	02/07/2008 13:22	Linda C Pape	25





Page 2 of 2

Lancas	ter Laboratories Sample	No. SW5272236		Group No. 1076	102	
CPT2-S Facili 2259 F Collec	-30-080204 Grab Soil ty# 307233 CETE irst St-Livermore T06001 ted:02/04/2008 12:30	<b>196622 СРТ2</b> by IH	A	ccount Number: 1	0880	
Submit Report Discar	Submitted: 02/06/2008 10:10       ChevronTexaco         Reported: 02/18/2008 at 10:01       6001 Bollinger Canyon Rd L4310         Discard: 03/20/2008       San Ramon CA 94583					
CPT30						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 10:01	Diane V Do	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/15/2008 01:44	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2008 22:21	Roy R Mellott Jr	51.87
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:52	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:50	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 19:38	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	2	02/06/2008 19:45	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	3	02/06/2008 19:46	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	4	02/06/2008 19:47	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	5	02/06/2008 19:48	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:51	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. 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		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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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.	mg/kg	1
	that of a hydrocarbon component C8 (n-octane) through C40 (n-tet Due to insufficient sample size, reporting limits. The values re- limits attainable.	mix calibratio racontane) nor we were unabl ported represe	n in a range that mal hydrocarbons. e to report our u nt the lowest rep	includes sual orting		
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





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 Account Number: 10880 Collected:02/04/2008 12:45 by IH Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/18/2008 at 10:01 6001 Bollinger Canyon Rd L4310 Discard: 03/20/2008 San Ramon CA 94583 CPT35 CAT Analysis Dilution TPH-GRO - Soils Trial# Date and Time Analyst Factor No. 
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/07/2008 10:52

 TPH-DRO by 8015B w/Silica
 SW-846 8015B
 1
 02/08/2008 10:20
 01725 Linda C Pape 25 02/07/2008 10:52 Linda C Pap 02/08/2008 10:20 Diane V Do 02222 1 Gel 02516TPH Fuels by GC (Soils)SW-846 8015B modified107361BTEX+5 Oxygenates+EDC+EDBSW-846 8260B1 02/15/2008 02:08 Matthew E Barton 1 1 02/08/2008 15:29 Nicholas R Rossi 0.98 
 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A

 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A
 1 02/06/2008 19:57 Eric L Vera n.a. 2 02/06/2008 19:56 Eric L Vera n.a. GC - Bulk Soil Prep SW-846 5030A 02/06/2008 19:58 Eric L Vera 01150 1 n.a. 
 OffSo
 GC - Burk Soft Hep
 S. 846 5030A

 06646
 GC/MS HL Bulk Sample Prep
 SW-846 5030A

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

 07004
 Extraction - DRO (Soils)
 SW-846 3550B
 1 02/06/2008 20:00 Eric L Vera n.a. 1 02/07/2008 14:35 Doreen K Robles 1 2 02/13/2008 18:10 Sally L Appleyard 1



# **Analysis Report**

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

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	<u>RPD Max</u>
Batch number: 08037A31B TPH-GRO - Soils	Sample nu N.D.	mber(s): 1.0	5272235,527 mg/kg	2237 82		67-119		
Batch number: 080380006A TPH-DRO by 8015B w/Silica Gel	Sample nu N.D.	mber(s): 4.0	5272235-527 mg/kg	2237 96	94	71-109	2	20
Batch number: 08038A02A TPH-GRO - Soils	Sample nu N.D.	mber(s): 1.0	5272236 mg/kg	93		67-119		
Batch number: 080440019A Total TPH TPH Motor Oil C16-C36	Sample nu N.D. N.D.	mber(s): 10. 10.	5272235-527 mg/kg mg/kg	2237 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	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 0.001 0.020 0.0005 0.001 0.001 0.001 0.001	5272235,527 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	2237 97 96 95 102 99 100 100 100 100 93	100 99 98 99 106 104 103 101 95	72-117 72-120 72-115 73-116 59-154 84-115 76-126 81-116 77-114 82-115	3 3 4 4 5 4 2 1 2	30 30 30 30 30 30 30 30 30 30 30
<pre>Xylene (Total) 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)</pre>	N.D. Sample nu N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	0.001 mber(s): 0.025 0.050 0.050 1.0 0.025 0.050 0.050 0.050 0.050 0.050	mg/kg 5272236 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	96 100 97 100 98 102 103 105 108 106 107 106	98 103 100 100 111 104 108 110 112 110 108	82-117 72-117 72-120 72-115 73-116 59-154 84-115 76-126 81-116 77-114 82-115 82-117	2 3 0 3 8 1 3 1 6 3 2	30 30 30 30 30 30 30 30 30 30 30 30 30 3

### 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

	Map	140 /140D		<b>B</b> WG		5775	D
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.



# **Analysis Report**

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Page 2 of 3

## Quality Control Summary

Client Name: ChevronTexaco Reported: 02/18/08 at 10:01 AM		Group Number: 1076102							
Analysis Name	<u>%REC</u>	%REC	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	Conc	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Batch number: 08037A31B TPH-GRO - Soils	Sample 1 86	number(s) 87	: 5272235, 39-118	527223' 2	7 UNSPK 30	: P262899			
Batch number: 08038A02A TPH-GRO - Soils	Sample 1 74	number(s) 80	: 5272236 39-118	UNSPK: 8	P26649 30	9			
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 1 105 100 95 96 113 102 117 102 104 97 99	number(s)	: 5272235, 59-119 58-113 60-112 51-134 66-112 62-130 50-121 66-108 54-116 52-117	527223	7 UNSPK	: P269330			

### 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

5272235	84
5272237	90
Blank	85
LCS	101
MS	95
MSD	91
Limits:	61-122
Analysis Nam Batch number	ne: TPH-DRO by 8015B w/Silica Gel r: 080380006A Orthoterphenyl
5272235	100
5272236	105
5272237	101
Blank	102
LCS	115
LCSD	111
Limits:	59-129
Analysis Nam Batch number	ne: TPH-GRO - Soils r: 08038A02A Trifluorotoluene-F

5272236 119

\*- Outside of specification

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





Page 3 of 3

## Quality Control Summary

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

## Surrogate Quality Control

Blank	91									
LCS	101									
MS	83									
MSD	87									
Limits:	61-122									
Analysis I	Name: TPH Fuels by GC (Soi	1s)								
Dattin Inulli	Chlorobenzene	Orthoterphenyl								
	enrorobenzene	orenoccipitenyi								
5272235	91	103								
5272236	124	101								
5272237	95	98								
Blank	95	103								
LCS	115	104								
LCSD	93	106								
Limits:	37-125	47-145								
Apolygia	Name PTEVIE OvergonatogiED									
Batch num	her, BO8039122									
Datti Iuli	Dibromofluoromethane	1 2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene						
	Dibionorradionechane	1,2 Diemorocchane af								
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 I	Name: BTEX+5 Oxygenates+ED	C+EDB								
Batch num	ber: 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

(1) 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, 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

7
## 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
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

### **Inorganic Qualifiers**

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

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

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

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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.

Client Description SB7-S-9.5-080130 Grab Soil SB7-S-19.5-080130 Grab Soil SB7-S-29.5-080130 Grab Soil SB7-S-34.5-080130 Grab Soil SB6-S-9.5-080130 Grab Soil SB6-S-19.5-080130 Grab Soil SB6-S-24-080130 Grab Soil

ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Lancaster Labs Number 5269393 5269394 5269395 5269396 5269397 5269398 5269399

Attn: Charlotte Evans Attn: I Hull





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

Respectfully Submitted,

May E - Inavely

Max E. Snavely Senior Specialist





Page 1 of 2

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

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

			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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
Lead	7439-92-1	8.30	0.476	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
TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample on in a range that mal hydrocarbons.	pattern to includes		
BTEX+5 Oxygenates+EDC+EDB					
Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.96
di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.96
Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.96
t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.96
t-Butyl alcohol	75-65-0	N.D.	0.019	mg/kg	0.96
Benzene	71-43-2	N.D.	0.0005	mg/kg	0.96
1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.96
Toluene	108-88-3	N.D.	0.001	mg/kg	0.96
1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.96
The bash and a second	100 41 4	N D	0 001		0.00
Echylbenzene	100-41-4	N.D.	0.001	ilig/kg	0.96
	Analysis Name TPH-GRO - Soils The reported concentration of TP gasoline constituents eluting pr 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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Amyl methyl ether 1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethyl benzene	Analysis NameCAS NumberTPH-GRO - Soilsn.a.The reported concentration of TPH-GRO does not gasoline constituents eluting prior to the Co start time. TPH-DRO by 8015B w/Silica Gel n.a. Leadn.a. LeadTPH-DRO by 8015B w/Silica Gel n.a. Leadn.a. TA39-92-1TPH Fuels by GC (Soils)n.a. TOtal TPH n.a. TPH Motor Oil C16-C36 n.a.TPH quantitation is based on peak area compari that of a hydrocarbon component mix calibration C8 (n-octane) through C40 (n-tetracontane) norBTEX+5 Oxygenates+EDC+EDBMethyl Tertiary Butyl Ether (a37-92-3) t-Amyl methyl ether t-Butyl alcohol1634-04-4 (37-92-3) t-Amyl methyl ether (a37-92-3) t-Amyl methyl ether (a37-92-3) t-Amyl methyl ether (a37-92-3) t-Amyl methyl ether (a2-0)Benzene (1,2-Dichloroethane (1,2-Dibnomoethane (1,2-DibnomoethaneTotal reported component (1,2-Dibnomethane (1,2-Dibnomethane100-03-1 (1,2-Dibnomethane100-03-1 (1,2-Dibnomethane100-03-1 (1,2-Dibnomethane100-03-1 (1,2-Dibnomethane100-03-1 (1,0-03-1)	Analysis NameCAS NumberAs Received ResultTPH-GRO - Soilsn.a.N.D.The reported concentration of TPH-GRO does not include MTBE or gasoline constituents eluting prior to the C6 (n-hexane) TPH-GR start time. TPH-DRO by 8015B w/Silica Geln.a.N.D.TH-DRO by 8015B w/Silica Geln.a.N.D.Lead7439-92-18.30TPH Fuels by GC (Soils)Total TPHn.a.N.D.TPH Motor Oil C16-C36n.a.N.D.TPH quantitation is based on peak area comparison of the sample that of a hydrocarbon component mix calibration in a range that C8 (n-octane) through C40 (n-terrorotane) normal hydrocarbons.ETEX+5 Oxygenates+EDC+EDBMethyl Tertiary Butyl Ether1634-04-4N.D.Gi-Isopropyl ether108-20-3N.D.t-Amyl methyl ether94-05-8N.D.t-Amyl methyl ether94-05-8N.D.t-Amyl methyl ether107-06-2N.D.1,2-Dichloroethane107-06-2N.D.Toluene108-88-3N.D.1,2-Dibromoethane106-91-4N.D.Toluene106-91-4N.D.	Analysis NameCAS NumberAs Received A ResultMethod MethodTPH-GRO - Soilsn.a.N.D.1.0The reported concentrations TPH-GRO does to tinclude MTBE or unspace start time.include MTBE or unspace tinclude MTBE or unspace start time.N.D.4.0Leadn.a.N.D.4.0Leadn.a.N.D.0.476TPH Fuels by GC (Soils)n.a.N.D.10.TPH fuels by GC (Soils)n.a.N.D.10.TPH Motor Oil C16-C36n.a.N.D.10.TPH quantitation is based on persure 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-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not in a range that includes C8 (n-octane) through C40 (n-textone) not includes C8 (n-octane) through C40 (n-textone) not includesBTEX+5 Oxygenates+EDC+EDBND.0.001Ethyl t-butyl ether1634-04-4N.D.0.001Labu	Analysis NameCAS NumberKe Received As Received MethodPH-GRO - Soilsn.a.N.D.Leatin 1.0Ma/kgThe reported construction of TH-GROi.i.d.mg/kgThe reported construction of TH-GROi.i.d.mg/kgThe reported construction of TH-GROi.i.d.mg/kgTere reported construction of TH-GROi.i.d.mg/kgLeadn.a.N.D.4.0mg/kgLeadn.a.N.D.i.i.d.mg/kgTPH-DRO Soilsn.a.N.D.i.i.d.mg/kgTPH Fuels by GC (Soils)n.a.N.D.i.i.d.mg/kgTPH Motor Oil Cl6-C36n.a.N.D.i.i.d.mg/kgTPH quantitation is based on exact screater is construction of the samely extern to screate the screater is constructioned by drocarbon component mix calibration in a range that includesmg/kgSTEX+5 Oxygenates+EDC+EDBi.i.d.N.D.0.001mg/kgdi-Isopropyl ether108-20-3N.D.0.001mg/kgEthyl Tertiary Butyl Ether1634-04-4N.D.0.001mg/kgichard of a hydrocarbon componenti.i.d.N.D.0.001mg/kgGi-Isopropyl ether108-20-3N.D.0.001mg/kgEthyl Tertiary Butyl Ether1634-04-4N.D.0.001mg/kgichard of a range thatincludesi.i.d.mg/kgGi-Isopropyl ether108-20-3N.D.0.001mg/kgichard of a range thati.i.d.i.i.d.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
 Dilution

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

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/05/2008
 00:08
 Linda C Pape
 25





Lancas	ter Laboratories Sample	No. SW5269393		Group No. 1075	607	
SB7-S- Facili 2259 F Collect	<b>9.5-080130 Grab Soil ty# 307233 CETE irst St-Livermore T06001</b> ted:01/30/2008 09:00	<b>.96622 SB7</b> by IH	A	ccount Number: 1	0880	
Submit Reporte Discare	ted: 02/01/2008 10:00 ed: 02/12/2008 at 13:07 d: 03/14/2008		C] 6 Sa	nevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
23371 02222	TPH-DRO by 8015B w/Silica	SW-846 8015B	1	02/05/2008 19:00	Diane V Do	1
000000	Gel		-			-
06955	Lead	SW-846 6010B	1	02/05/2008 09:11	Joanne M Gates	1
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.
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





Page 1 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

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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)					
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

 CAT
 Dilution

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

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/05/2008 00:47
 Linda C Pape
 25



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

Lancas	ter Laboratories Sample	No. SW5269394		Group No. 1075	607		
<b>SB7-S-19.5-080130 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SB7</b> Collected:01/30/2008 09:10 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			
23372							
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	





Page 1 of 2

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 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

23373

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

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

 Laboratory Chronicle

 CAT
 Dilution

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

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/05/2008 01:25
 Linda C Pape
 25



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Lancas	ter Laboratories Sample	No. S	W5269395		Group No. 1075	607	
SB7-S-29.5-080130 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SB7 Collected:01/30/2008 09:15 by IH Account Number: 10880							
Submitted: 02/01/2008 10:00       ChevronTexaco         Reported: 02/12/2008 at 13:07       6001 Bollinger Canyon Rd L4310         Discard: 03/14/2008       San Ramon CA 94583							
23373							
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8	8015B	1	02/05/2008 19:39	Diane V Do	1
06955	Lead	SW-846 6	6010B	1	02/05/2008 07:53	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8	8015B modified	1	02/05/2008 16:45	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8	8260B	1	02/06/2008 12:40	Nicholas R Rossi	1
00374	GC/MS - Bulk Sample Prep	SW-846 5	5030A	1	02/01/2008 19:49	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5	5030A	2	02/01/2008 19:50	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5	5030A	1	02/01/2008 19:53	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3	3050B	1	02/04/2008 20:45	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 5	5030A	1	02/01/2008 19:52	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3	3550B	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3	3550B	2	02/04/2008 15:00	Doreen K Robles	1





Page 1 of 2

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

As Received

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

23374

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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	11.6	0.485	mg/kg	1
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	N.D.	10.	mq/kq	1
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

 CAT
 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



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Lancas	ter Laboratories Sample	No. SW526	59396		Group No. 1075	607	
<b>SB7-S-34.5-080130 Grab Soil</b> <b>Facility# 307233 CETE</b> <b>2259 First St-Livermore T0600196622 SB7</b> Collected:01/30/2008 09:35 by IH Account Number: 10880							
Submit Report Discar	ted: 02/01/2008 10:00 ed: 02/12/2008 at 13:07 d: 03/14/2008			Ch 60 Sa	evronTexaco 01 Bollinger Ca n Ramon CA 9458	nyon Rd L4310 3	
23374							
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015E	3	1	02/05/2008 19:59	Diane V Do	1
06955	Lead	SW-846 6010E	3 2	1	02/05/2008 09:21	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015E	3 modified	1	02/05/2008 17:09	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260E	3 1	1	02/06/2008 13:03	Nicholas R Rossi	0.99
00374	GC/MS - Bulk Sample Prep	SW-846 50307	A	1	02/01/2008 20:03	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 50307	A 2	2	02/01/2008 20:04	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 50307	A	1	02/01/2008 20:08	Lois E Hiltz	n.a.
05708	SW SW846 ICP Digest	SW-846 3050E	3 1	1	02/04/2008 20:45	Annamaria Stipkovits	1
06646	GC/MS HL Bulk Sample Prep	SW-846 50307	A	1	02/01/2008 20:06	Lois E Hiltz	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550E	3 1	1	02/04/2008 15:00	Doreen K Robles	1
07004	Extraction - DRO (Soils)	SW-846 3550E	3 2	2	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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

 CAT
 Analysis
 Dilution

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

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



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Lancas	ter Laboratories Sample	No. SW5269397		Group No. 1075	607	
SB6-S- Facili 2259 F Collec	<b>9.5-080130 Grab Soil ty# 307233 CETE irst St-Livermore T06001</b> ted:01/30/2008 12:05	<b>.96622 SB6</b> by IH	A	ccount Number: 1	0880	
Submit Report Discar	ted: 02/01/2008 10:00 ed: 02/12/2008 at 13:07 d: 03/14/2008		C. 6 S	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
23361						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/05/2008 20:18	Diane V Do	1
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





Page 1 of 2

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

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

 CAT
 Analysis
 Dilution

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

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/05/2008
 03:21
 Linda C Pape
 25



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Lancas	ter Laboratories Sample	No. SW5269398		Group No. 1075	607					
SB6-S- Facili 2259 F Collec	<b>SB6-S-19.5-080130 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SB6</b> Collected:01/30/2008 12:15 by IH Account Number: 10880									
Submit Report Discar	ted: 02/01/2008 10:00 ed: 02/12/2008 at 13:07 d: 03/14/2008		C. 6 S	ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583						
23362										
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/05/2008 20:38	Diane V Do	1				
06955	Lead	SW-846 6010B	1	02/05/2008 09:39	Joanne M Gates	1				
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				





Page 1 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

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
06955	Lead	7439-92-1	10.9	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
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

 CAT
 Analysis
 Dilution

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

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/05/2008
 03:59
 Linda C Pape
 25



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Lancas	ter Laboratories Sample	No. SW5269399		Group No. 1075	607					
SB6-S- Facili 2259 F Collec	<b>SB6-S-24-080130 Grab Soil</b> <b>Facility# 307233 CETE</b> <b>2259 First St-Livermore T0600196622 SB6</b> Collected:01/30/2008 12:20 by IH Account Number: 10880									
Submit Report Discar	ted: 02/01/2008 10:00 ed: 02/12/2008 at 13:07 d: 03/14/2008		C 6 S	ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583						
23363										
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/05/2008 20:58	Diane V Do	1				
06955	Lead	SW-846 6010B	1	02/05/2008 09:44	Joanne M Gates	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				
07004	Extraction - DRO (Soils)	SW-846 3550B	2	02/04/2008 15:00	Doreen K Robles	1				



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Page 1 of 3

### 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 method.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 080350013A Total TPH TPH Motor Oil C16-C36	Sample num N.D. N.D.	ber(s): 5 10. 10.	269393-526 mg/kg mg/kg	9399 78	80	66-113	3	20
Batch number: 080350013B TPH-DRO by 8015B w/Silica Gel	Sample num N.D.	ber(s): 5 4.0	269393-526 mg/kg	9399 93	96	71-109	2	20
Batch number: 080355708002 Lead	Sample num N.D.	ber(s): 5 0.490	269393-526 mg/kg	9399 105		90-110		
Batch number: 08035A33A TPH-GRO - Soils	Sample num N.D.	ber(s): 5 1.0	269393-526 mg/kg	9399 95		67-119		
Batch number: B080371AA	Sample num	ber(s): 5	269393-526	9399				
Methyl Tertiary Butyl Ether	N.D.	0.0005	mq/kq	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	101	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 <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 080355708002	Sample	number(s)	: 5269393-	526939	9 UNSPK	C: 5269395 B	KG: 5269395		
Lead	107	91	75-125	8	20	10.5	9.95	6	20
Batch number: 08035A33A	Sample	number(s)	: 5269393-	526939	9 UNSPK	C: P268441			
TPH-GRO - Soils	46	40	39-118	6	30				
Batch number: B080371AA	Sample	number(s)	: 5269393-	526939	9 UNSPK	C: 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.



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Page 2 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/12/08 at 01:07 PM Group Number: 1075607

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	MAX	Conc	Conc	RPD	Max
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 M	Name: TPH Fuels by GC	(Soils)	
Daten num	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	
Limits:	37-125	47-145	
<u></u>	80		
5269393	79		
5269394			
5269395	98		
5269396	76		
5269397	87		
5269398	103		
5269399	98		
Blank	102		
LCS	118		
LCSD	121		
Limits:	59-129		
Analysis 1	Name: TPH-GRO - Soils		
Batch num	per: 08035A33A		
	IIIII UOI OCOIUEIIE-F		

\*- Outside of specification

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





Page 3 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/12/08 at 01:07 PM Group Number: 1075607

Surrogate Quality Control

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

Limits: 61-122

Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch numb	atch number: B080371AA										
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene							
5269393	100	103	97	82							
5269394	100	100	98	81							
5269395	98	97	96	99							
5269396	100	102	99	82							
5269397	101	98	100	80							
5269398	102	107	97	84							
5269399	103	103	99	83							
Blank	100	102	99	82							
LCS	96	97	102	92							
LCSD	96	98	101	93							
MS	100	105	103	95							
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.

Cł	nevron Cal	lifornia R	?e	gic	n	Ar	al	ysi	is F	Rea	qu	est/	Cha	in of Cu	istoc	ły
Where quality is a science.	013108-0	04	Ac	ct. #: .	801 108	80	S	Fr Sample Al	or Lan #: <u>5</u> nalyse	caste 299. es Re	r Labo 393 ques	ratories - <u>3</u> 6 <u>0 g. y</u> ted	use onl 399 356 2	y  Growp [	244( 07560	) <b>50</b> 7
Facility #: $30 - 7233$ (A1L)Site Address: $2259$ FIPST ST.Chevron PM: I. POBB LeadConsultant/Office: EMEPYVILLE,Consultant/Office: EMEPYVILLE,Consultant/Office: EMEPYVILLE,Consultant/Office: EMEPYVILLE,Consultant Prinder: C. EVANSConsultant Phone #: SIO-420 - 3344Sample: IHSample: IHService Order #: SIO-420 - 3344Sample: IHService Order #: SIO-420 - 3344Sample DeptySB7-9.5 S 9, 9, 5SB7-9.5 S 9, 9, 5SB7-29.5 S 9, 9, 5SB7-29.5 S 9, 9, 5SB7-29.5 S 9, 9, 5SB7-34 S4, 5SB6-9.5 9, 9, 5	$\frac{100}{12}$	$\frac{F}{20 - q_1 - 10}$ Time New pollected Field Pt. (q 00) (q 10)	X X X X X Grab	Composite	Total Number of Containers		X X X X TPH 8015 MOD DRO X Silica Gel Cleanup	8260 full scan	X Y X X X 4 Oxygenates LEAD XAV5 3	XXXXXX X X X X X X X X X X X X X X X X	X X X X X LEAD GOID			Preserva H = HCl N = HNO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub> J value report Must meet low possible for 82 8021 MTBE Con Confirm highe Confirm all hit Runoxy Runoxy Comments / F PLFASE C VFSULTS CEVANS C i hull EDF DAT	tive Code T = Thiosis B = NaOHO O = Other ing needed vest detection 260 compound firmation est hit by 8260 's on higher 's on all hits Remarks E-MAIL TO : DCCAWO CA TO :	es ulfate 1 on limits unds 60 st hit
SB 6 - 24     24       Turnaround Time Requested (TAT) (please circle if required)       STD. TAT     72 hour       24 hour     4 day       5 day       Data Package Options (please circle if required)       QC Summary     Type I – Full	cle) Reli Reli Reli	inquished by: inquished by: inquis	X				· ×	Date Date Joiog Date /3//01			Recei	ved by: CUP E d by:	E LO	dohore e CATION	Date <i>Jate</i> <i>Jate</i> <i>Jate</i> <i>Jate</i> <i>Jate</i> <i>Jate</i>	Time
Type VI (Raw Data)	ed UPS	mperature Upon Rec	eipt	Oth	er_£ 34	<del>مور</del> _0°					Custo	yeu by.	huj Intact?	Yes sho	2467	orone استا

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.

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3460 Rev. 10/04/01

4.54, 201

## 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
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

### **Inorganic Qualifiers**

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

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

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

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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.

<u>Client Description</u> SB-9-S-15-080129 Grab Soil SB-9-S-27.5-080129 Grab Soil SB-9-S-34.5-080129 Grab Soil SB-9-S-46.5-080129 Grab Soil SB-9-S-54.5-080129 Grab Soil

ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Lancaster Labs Number 5268359 5268360 5268361 5268362 5268363

Attn: Charlotte Evans

Attn: I Hull





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

Respectfully Submitted,

May E - Inavely

Max E. Snavely Senior Specialist





Page 1 of 2

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 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 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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	Chro	nicle		
CAT			Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	01/31/2008 22:34	Linda C Pape	25





Lancas	ter Laboratories Sample	No. SW5268359		Group No. 1075	463				
SB-9-S Facili 2259 F Collec	B-9-S-15-080129 Grab Soil 'acility# 307233 CETE 259 First St-Livermore T0600196622 SB-9 Collected:01/29/2008 09:20 by IH Account Number: 10880								
Submit Report Discar	ted: 01/31/2008 10:10 ed: 02/12/2008 at 08:39 d: 03/14/2008			ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583					
S9-15 02222	TPH-DRO by 8015B w/Silica	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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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
 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 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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other 20 range		
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample on in a range that mal hydrocarbons.	e pattern to 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	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.08

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
01725	TPH-GRO - Soils	SW-846 8015B modified	1	01/31/2008 23:09	Linda C Pape	25





Lancas	ter Laboratories Sample	No. SW52	68360		Group No. 107	5463			
SB-9-S Facili 2259 F Collec	<b>3B-9-S-27.5-080129 Grab Soil</b> <b>Facility# 307233 CETE</b> <b>2259 First St-Livermore T0600196622 SB-9</b> Collected:01/29/2008 10:13 by IH Account Number: 10880								
Submit Report Discar	ted: 01/31/2008 10:10 ed: 02/12/2008 at 08:39 d: 03/14/2008			Ch 60 Sa	evronTexaco 01 Bollinger Ca n Ramon CA 9458	anyon Rd L4310 33			
S9-27 02222	TPH-DRO by 8015B w/Silica	SW-846 8015	3	1	02/05/2008 17:41	Diane V Do	1		
06955	Lead	SW-846 6010B	3	1	02/04/2008 09:39	Joanne M Gates	1		
02516	TPH Fuels by GC (Soils)	SW-846 8015	3 modified	1	02/05/2008 12:47	Matthew E Barton	1		
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	3	1	02/01/2008 13:02	Nicholas R Rossi	1.08		
00374	GC/MS - Bulk Sample Prep	SW-846 50302	A	1	01/31/2008 15:03	Eric L Vera	n.a.		
00374	GC/MS - Bulk Sample Prep	SW-846 50307	A	2	01/31/2008 15:05	Eric L Vera	n.a.		
01150	GC - Bulk Soil Prep	SW-846 50307	J I	1	01/31/2008 15:02	Eric L Vera	n.a.		
05708	SW SW846 ICP Digest	SW-846 3050E	3	1	02/03/2008 19:10	Annamaria Stipkovits	1		
06646	GC/MS HL Bulk Sample Prep	SW-846 50302	J I	1	01/31/2008 15:04	Eric L Vera	n.a.		
07004	Extraction - DRO (Soils)	SW-846 3550E	3	1	02/04/2008 15:00	Doreen K Robles	1		
07004	Extraction - DRO (Soils)	SW-846 3550E	3	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

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

S9-34

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	Chro	nicle		
CAT	CAT			Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	01/31/2008 23:45	Linda C Pape	25





Lancas	ter Laboratories Sample	No. SW5268361		Group No. 1075	463				
SB-9-S Facili 2259 F Collec	<b>SB-9-S-34.5-080129 Grab Soil</b> <b>'acility# 307233 CETE</b> <b>'259 First St-Livermore T0600196622 SB-9</b> 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					
59-34									
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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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
 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 San Ramon CA 94583

S9-46

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

 CAT
 Dilution

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

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/01/2008 00:21
 Linda C Pape
 25





Lancas	ter Laboratories Sample	No.	SW5268362		Group No. 1075	463			
SB-9-S Facili 2259 F Collec	B-9-S-46.5-080129 Grab Soil acility# 307233 CETE 259 First St-Livermore T0600196622 SB-9 ollected:01/29/2008 11:07 by IH Account Number: 10880								
Submit Report Discar	ted: 01/31/2008 10:10 ed: 02/12/2008 at 08:39 d: 03/14/2008			Cł 60 Sa	nevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3			
S9-46									
02222	TPH-DRO by 8015B w/Silica Gel	SW-846	8015B	1	02/05/2008 18:20	Diane V Do	1		
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. 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 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 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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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)					
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

 CAT
 Dilution

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

 01725
 TPH-GRO - Soils
 SW-846 8015B modified
 1
 02/01/2008 00:57
 Linda C Pape
 25





Lancas	ter Laboratories Sample	No. SW5	268363		Group No. 1075	463			
SB-9-S Facili 2259 F Collec	<b>3B-9-S-54.5-080129 Grab Soil</b> <b>Facility# 307233 CETE</b> <b>2259 First St-Livermore T0600196622 SB-9</b> Collected:01/29/2008 11:36 by IH Account Number: 10880								
Submitted: 01/31/2008 10:10 Reported: 02/12/2008 at 08:39 Discard: 03/14/2008		Che 600 San		ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583					
S9-54									
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 801	15B	1	02/05/2008 18:40	Diane V Do	1		
06955	Lead	SW-846 601	10B	1	02/04/2008 10:58	Joanne M Gates	1		
02516	TPH Fuels by GC (Soils)	SW-846 801	15B modified	1	02/05/2008 13:58	Matthew E Barton	1		
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 826	50B	1	02/01/2008 14:12	Nicholas R Rossi	1.09		
00374	GC/MS - Bulk Sample Prep	SW-846 503	30A	1	01/31/2008 15:21	Eric L Vera	n.a.		
00374	GC/MS - Bulk Sample Prep	SW-846 503	30A	2	01/31/2008 15:24	Eric L Vera	n.a.		
01150	GC - Bulk Soil Prep	SW-846 503	30A	1	01/31/2008 15:20	Eric L Vera	n.a.		
05708	SW SW846 ICP Digest	SW-846 305	50B	1	02/03/2008 19:10	Annamaria Stipkovits	1		
06646	GC/MS HL Bulk Sample Prep	SW-846 503	30A	1	01/31/2008 15:25	Eric L Vera	n.a.		
07004	Extraction - DRO (Soils)	SW-846 355	50B	1	02/04/2008 15:00	Doreen K Robles	1		
07004	Extraction - DRO (Soils)	SW-846 355	50B	2	02/04/2008 15:00	Doreen K Robles	1		



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Page 1 of 3

### 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 method.

#### Laboratory Compliance Quality Control

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08030A34B TPH-GRO - Soils	Sample num N.D.	ber(s): 1.0	5268359-526 mg/kg	8363 102		67-119		
Batch number: 080325708002 Lead	Sample num N.D.	ber(s): 0.490	5268359-526 mg/kg	8363 104		90-110		
Batch number: 080350013A Total TPH TPH Motor Oil C16-C36	Sample num N.D. N.D.	ber(s): 10. 10.	5268359-526 mg/kg mg/kg	8363 78	80	66-113	3	20
Batch number: 080350013B TPH-DRO by 8015B w/Silica Gel	Sample num N.D.	ber(s): 4.0	5268359-526 mg/kg	8363 93	96	71-109	2	20
Batch number: B080321AA	Sample num	ber(s):	5268359-526	8363				
Methyl Tertiary Butyl Ether	N.D.	0.0005	mq/kq	104	102	72-117	2	30
di-Isopropyl ether	N.D.	0.001	mg/kg	94	93	72-120	1	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	98	97	72-115	2	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	98	97	73-116	1	30
t-Butyl alcohol	N.D.	0.020	mg/kg	95	97	59-154	2	30
Benzene	N.D.	0.0005	mg/kg	101	100	84-115	1	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	127*	126	76-126	1	30
Toluene	N.D.	0.001	mg/kg	99	97	81-116	2	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	108	103	77-114	5	30
Ethylbenzene	N.D.	0.001	mg/kg	97	98	82-115	0	30
Xylene (Total)	N.D.	0.001	mg/kg	97	97	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 <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 08030A34B TPH-GRO - Soils	Sample 97	number(s) 104	: 5268359- 39-118	-5268363 8	3 UNSPK 30	: P262899			
Batch number: 080325708002 Lead	Sample 103	number(s) 95	: 5268359- 75-125	-5268363 5	3 UNSPK 20	: 5268360 7.92	BKG: 5268360 7.51	5	20
Batch number: B080321AA	Sample	number(s)	: 5268359-	5268363	3 UNSPK	: 5268359			
di Igopropul other	109		59-119						
Ethyl t-hutyl ether	102		50-113 60-112						
t-Amyl methyl ether	101		63-112						
t-Butyl alcohol	97		51-134						

\*- Outside of specification

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



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Page 2 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/12/08 at 08:39 AM Group Number: 1075463

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	MAX	Conc	Conc	RPD	Max
Benzene	98		66-112						
1,2-Dichloroethane	137*		62-130						
Toluene	98		50-121						
1,2-Dibromoethane	106		66-108						
Ethylbenzene	99		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-GRO - Soils Batch number: 08030A34B Trifluorotoluene-F

5268359	89
5268360	91
5268361	94
5268362	82
5268363	86
Blank	99
LCS	101
MS	102
MSD	101

Limits: 61-122

Analysis Name: TPH Fuels by GC (Soils)						
Ducon nambe	Chlorobenzene	Orthoterphenyl				
5268359	86	89				
5268360	74	79				
5268361	78	81				
5268362	72	71				
5268363	83	79				
Blank	95	95				
LCS	104	100				
LCSD	107	101				
Limits:	37-125	47-145				
Analysis Name: TPH-DRO by 8015B w/Silica Gel Batch number: 080350013B Orthoterphenyl						

526835994526836087526836184

\*- Outside of specification

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




Page 3 of 3

# Quality Control Summary

Client Name: ChevronTexaco Reported: 02/12/08 at 08:39 AM Group Number: 1075463

## Surrogate Quality Control

5268362	78
5268363	81
Blank	102
LCS	118
LCSD	121

Limits: 59-129

#### Analysis Name: BTEX+5 Oxygenates+EDC+EDB

Batch numb	per: B080321AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
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

- (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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Site Address: <u>2237</u> Hrst <u>H</u> , <u>I</u> Chevron PM: <u>LAN</u> ROBB Lead C	Consultant: CRP	CA							leanup	No.							$\mathbf{N} = HNO_3$ $\mathbf{S} = H_2SO_4$	B = NaOi O = Othe	Hi r
Consultant/Office: Frenchille, (A	<u></u>					iners			Gelo	A V V	ξ.	Į					J value report	ing needed	
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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
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 ml

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

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

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

U.S. EPA data qualifiers:

## **Organic Qualifiers**

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

# **Inorganic Qualifiers**

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

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

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

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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

COPY TO

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 L	abs Number
SSB10-S-1.5-080131	Grab Soil	5272407	
SSB1-S-1.5-080201 C	Grab Soil	5272408	
SSB1-S-2.5-080201 C	Grab Soil	5272409	
SSB1-S-4.5-080201 C	Grab Soil	5272410	
SSB2-S-1.5-080201 C	Grab Soil	5272411	
SSB2-S-2.5-080201 C	Grab Soil	5272412	
SSB8-S-1.5-080201 C	Grab Soil	5272413	
SSB2-S-4.5-080201 C	Grab Soil	5272414	
SSB8-S-4.5-080201 C	Grab Soil	5272415	
SSB2-S-8-080201 Gr	ab Soil	5272416	
SSB3-S-1.5-080130 C	Grab Soil	5272417	
SSB4-S-1.5-080201 C	Grab Soil	5272418	
SSB4-S-2.5-080201 C	Grab Soil	5272419	
SSB8-S-9.5-080201 C	Grab Soil	5272420	
SSB4-S-4.5-080201 C	Grab Soil	5272421	
SSB4-S-9-080201 Gr	ab Soil	5272422	
ELECTRONIC C COPY TO	CRA	Attn: Charlotte	Evans
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Questions? Contact your Client Services Representative Angela M Miller at (717) 656-2300

Respectfully Submitted,

Ausan M Goshert

Susan M. Goshert Group Leader





Page 1 of 1

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 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 Reported: 02/13/2008 at 10:31 Discard: 03/15/2008 San Ramon CA 94583

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 38.9 0.471 mg/kg 1

State of California Lab Certification No. 2116

	Laboratory	/ Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 07:21	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 07:21   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 07:21Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





Page 1 of 1

Lancaster Laboratories Sample No. SW5272408 Group No. 1076137 SSB1-S-1.5-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB1 Account Number: 10880 Collected:02/01/2008 11:10 by IH Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:31

Discard: 03/15/2008

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	1

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
		-	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 07:25	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 07:25   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 07:25Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





Page 1 of 1

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 Account Number: 10880 by IH Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:32

Discard: 03/15/2008

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
06955	Lead	7439-92-1	52.9	0.480	mg/kg	1

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
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 IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Submitted: 02/13/2008 at 10:32 6001 Bollinger Capyon Pd L431

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008 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	7.34	0.480	mg/kg	1

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
		•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 07:32	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 07:32   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 07:32Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





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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 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:32 6001 Bollinger Canvon Ed L4310

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008

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	17.4	0.476	mg/kg	1	

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
CAT			Analysis		
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 07:35	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 07:35   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 07:35Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





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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 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 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 TP gasoline constituents eluting pr start time.	H-GRO does not tor to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
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
05466	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

Laboratory Chronicle							
CAT		-		Analysis		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
01725	TPH-GRO - Soils	SW-846 8015B modifie	d 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	1	02/06/2008 19:12	Eric L Vera	n.a.	





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Group No. 1076137 Lancaster Laboratories Sample No. SW5272412 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 by IH Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:32 6001 Bollinger Canyon Rd L4310 Discard: 03/15/2008 San Ramon CA 94583 SSB2B 07004 Extraction - DRO (Soils) SW-846 3550B 1 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 Collected:02/01/2008 13:05 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Submitted: 02/12/2008 at 10:22 ChevronTexaco

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008 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	168.	0.471	mg/kg	1	

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
CAT			Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 07:43	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 07:43   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 07:43Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





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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

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

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
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

State of California Lab Certification No. 2116

Laboratory Chronicle							
CAT		-		Analysis		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
01725	TPH-GRO - Soils	SW-846 8015B modified	1 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 12:58	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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Group No. 1076137 Lancaster Laboratories Sample No. SW5272414 SSB2-S-4.5-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB2 Collected:02/01/2008 13:30 Account Number: 10880 by IH Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:32 6001 Bollinger Canyon Rd L4310 Discard: 03/15/2008 San Ramon CA 94583 SSB2C 07004 Extraction - DRO (Soils) SW-846 3550B 1 02/07/2008 14:35 Doreen K Robles 1





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Lancaster Laboratories Sample No. SW5272415 SSB8-S-4.5-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB8 Collected:02/01/2008 13:32 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008 ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

				As Received			
CAT			As Received	Method	Diluti		
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor	
06955	Lead	7439-92-1	160.	0.485	mg/kg	1	

State of California Lab Certification No. 2116

		Laborator	y Chro	nicle		
CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/08/2008 07:50	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. 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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other 20 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					
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
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.97
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.97

State of California Lab Certification No. 2116

Laboratory Chronicle							
CAT		1		Analysis		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
01725	TPH-GRO - Soils	SW-846 8015B modifie	d 1	02/08/2008 01:38	Linda C Pape	25	
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 14:16	Diane V Do	1	
06955	Lead	SW-846 6010B	1	02/08/2008 08:00	Joanne M Gates	1	
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 18:57	Nicholas R Rossi	0.97	
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:23	Eric L Vera	n.a.	
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:20	Eric L Vera	n.a.	
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 19:24	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 19:25	Eric L Vera	n.a.	





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Group No. 1076137 Lancaster Laboratories Sample No. SW5272416 SSB2-S-8-080201 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB2 Collected:02/01/2008 13:45 Account Number: 10880 by IH Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:32 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 1





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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 Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:32 6001 Bollinger Canvon Rd L431

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008 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	42.8	0.480	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	y Chro	nicle		
	-	•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 08:04	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 08:04   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 08:04Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





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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 Account Number: 10880 by IH Submitted: 02/06/2008 10:10 ChevronTexaco

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008

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	10.2	0.471	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 08:08	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 08:08   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 08:08Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





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Lancaster Laboratories Sample No. SW5272419 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 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Submitted: 02/12/2008 at 10:22 6001 Pollinger Captor Ed 1421

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008 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	517.	0.490	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	y Chro	nicle		
	-	•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 08:11	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/08/2008 08:11 SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 08:11Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





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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 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Submitted: 02/12/2008 at 10:22 ChevronTexaco

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008 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	33.8	0.480	mg/kg	1

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
		•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 08:15	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 08:15   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 08:15Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits





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Lancaster Laboratories Sample No. SW5272421 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 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Submitted: 02/12/2008 at 10:22 ChevronTexaco

Reported: 02/13/2008 at 10:32 Discard: 03/15/2008 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	616.	0.476	mg/kg	1

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
	-	•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 08:18	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 19:40	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 08:18   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 19:40	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 08:18Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 19:40Annamaria Stipkovits



Discard: 03/15/2008



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Page 1 of 1

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 by IH Account Number: 10880 Submitted: 02/06/2008 10:10 ChevronTexaco Reported: 02/13/2008 at 10:32 6001 Bollinger Canyon Rd L4310

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06955	Lead	7439-92-1	90.8	0.476	mg/kg	1

San Ramon CA 94583

State of California Lab Certification No. 2116

	Laboratory	/ Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/08/2008 10:40	Joanne M Gates	1
SW SW846 ICP Digest	SW-846 3050B	1	02/07/2008 20:10	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chroicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/08/2008 10:40   SW SW846 ICP Digest SW-846 3050B 1 02/07/2008 20:10	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/08/2008 10:40Joanne M GatesSW SW846 ICP DigestSW-846 3050B102/07/2008 20:10Annamaria Stipkovits



# **Analysis Report**

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Page 1 of 3

## Quality Control Summary

Client Name: ChevronTexaco Reported: 02/13/08 at 10:32 AM Group Number: 1076137

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 <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 080380006A TPH-DRO by 8015B w/Silica Gel	Sample N.D.	number(s): 4.0	5272412,52 mg/kg	272414,52 96	272416 94	71-109	2	20
Batch number: 080385708001 Lead	Sample N.D.	number(s): 0.490	5272407-52 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): 1.0	5272412,52 mg/kg	272414,52 93	272416	67-119		
Batch number: B080421AB	Sample	number(s):	5272412,52	272414,52	272416			
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	104	105	72-117	1	30
di-Isopropyl ether	N.D.	0.001	mg/kg	97	101	72-120	4	30
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-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	4	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD Limits	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 080385708001 Lead	Sample 1 154*	number(s): 176*	: 5272407- 75-125	5272423 6	L UNSPK 20	: P267812 E 21.9	KG: P267812 28.0	24*	20
Batch number: 080385708002 Lead	Sample 1 94	number(s): 100	: 5272422 75-125	UNSPK: 4	P27225 20	4 BKG: P272 8.93	254 9.69	8	20
Batch number: 08038A02A TPH-GRO - Soils	Sample 1 74	number(s): 80	: 5272412, 39-118	5272414 8	1,52724 30	16 UNSPK: P	266499		
Batch number: B080421AB Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether	Sample 1 100 100 97	number(s):	: 5272412, 59-119 58-113 60-112	5272414	1,52724	16 UNSPK: P	275147		

\*- 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.



# Analysis Report

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Page 2 of 3

# Quality Control Summary

Client Name: ChevronTexaco Reported: 02/13/08 at 10:32 AM Group Number: 1076137

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
<u>Analysis Name</u>	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
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			
Analysis 1	Name: TPH-GRO - Soils			
Batch num	ber: 08038A02A			
	Trifluorotoluene-F			
5272412	88			· · · · · · · · · · · · · · · · · · ·
5272414	84			
5272416	94			
Blank	91			
LCS	101			
MS	83			
MSD	87			
Limits:	61-122			······
Analysis 1	Name: BTEX+5 Oxygenates+EI	DC+EDB		
Batch num	ber: B080421AB			
	Dibromofluoromethane	1 2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzen

	DIDIOMOLIUOIOMECHANE	1,2-DICHIOIOECHAHE-04	Ioruene-da	4-BIOMOLIUOIODENZENE
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.

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





Page 3 of 3

# Quality Control Summary

Client Name: ChevronTexaco Reported: 02/13/08 at 10:32 AM Group Number: 1076137

nepercea.	02/13/00 40 10.52 11.	Surrogate Qua	ality Control	
LCSD MS	98 102	103 93	99 102	91 96
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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# 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
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 ml

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

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

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

U.S. EPA data qualifiers:

## **Organic Qualifiers**

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

# **Inorganic Qualifiers**

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

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

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

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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	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





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,

May E Shavely

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 Account Number: 10880 Collected:02/06/2008 09:23 by IH Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

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	13.0	0.480	mg/kg	1

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
	-	•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 11:48	Eric L Eby	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:05	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChroAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle   Analysis Name Method Trial# Date and Time   Lead SW-846 6010B 1 02/12/2008 11:48   SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:05	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 11:48Eric L EbySW SW846 ICP DigestSW-846 3050B102/11/2008 20:05Annamaria Stipkovits





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Lancaster Laboratories Sample No. SW5275483 Group No. 1076648 SSB7-S-3.5-080206 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB7 Account Number: 10880 Collected:02/06/2008 09:37 by IH Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11 6001 Bollinger Canyon Rd L4310

Discard: 03/16/2008

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	9.73	0.485	mg/kg	1

State of California Lab Certification No. 2116

		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 22:41	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. SW5275484 Group No. 1076648 SSB7-S-5.5-080206 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB7 Account Number: 10880 Collected:02/06/2008 09:44 by IH Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

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	4.60	0.471	mg/kg	1

State of California Lab Certification No. 2116

		Laborator	y Chro	nicle		
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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 San Ramon CA 94583

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06955	Lead	7439-92-1	3.97	0.476	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 22:55	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	Laboratory Chron Analysis Name Method Trial# Lead SW-846 6010B 1 SW SW846 ICP Digest SW-846 3050B 1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 22:55 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 22:55Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits




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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 Account Number: 10880 Collected:02/06/2008 10:35 by IH Submitted: 02/08/2008 09:50 ChevronTexaco 6001 Bollinger Canyon Rd L4310

Reported: 02/14/2008 at 13:11 Discard: 03/16/2008

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	189.	0.476	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	y Chro	nicle		
	-	•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 22:58	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChroAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 22:58 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial# Date and TimeAnalystLeadSW-846 6010B102/12/2008 22:58Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits



Discard: 03/16/2008



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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 Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11 ChevronTexaco

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06955	Lead	7439-92-1	15.0	0.480	mg/kg	1

San Ramon CA 94583

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
		-	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:02	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory   Chronicle     Analysis Name   Method   Trial#   Date and Time     Lead   SW-846 6010B   1   02/12/2008 23:02     SW SW846 ICP Digest   SW-846 3050B   1   02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial# Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:02Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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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 Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 San Ramon CA 94583

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 6.24 0.476 mg/kg 1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:06	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 23:06 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	LaboratoryChronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:06Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11 ChevronTexaco Reported: 02/14/2008 at 13:11 ChevronTexaco 0001 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	6.36	0.480	mg/kg	1

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
		-	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:09	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 23:09 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial# Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:09Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 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	67.2	0.490	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 22:19	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 22:19 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 22:19Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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Lancaster Laboratories Sample No. SW5275491 Group No. 1076648 SSB10-S-5-080206 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB10 Account Number: 10880 Collected:02/06/2008 12:38 by IH Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11

Discard: 03/16/2008

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	5.00	0.485	mg/kg	1

State of California Lab Certification No. 2116

	Laborator	y Chro	nicle		
		-	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:13	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory   Chronicle     Analysis Name   Method   Trial#   Date and Time     Lead   SW-846 6010B   1   02/12/2008 23:13     SW SW846 ICP Digest   SW-846 3050B   1   02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial# Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:13Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 Reported: 02/14/2008 at 13:11 ChevronTexaco Reported: 02/14/2008 at 13:11 ChevronTexaco 0001 Bollinger Canyon Rd L4310 San Ramon CA 94583

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06955	Lead	7439-92-1	9.34	<b>Limit</b> 0.485	mg/kg	1

State of California Lab Certification No. 2116

		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 23:16	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 SSB5-S-1.5-080206 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB5 Collected:02/06/2008 09:40 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Peported: 02/14/2008 at 13:11 ChevronTexaco 6001 Bollinger Canvon Ed L431

Reported: 02/14/2008 at 13:11 Discard: 03/16/2008 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	18.2	0.480	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	/ Chro	nicle		
	-	•	Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:20	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory   Chronicle     Analysis Name   Method   Trial#   Date and Time     Lead   SW-846 6010B   1   02/12/2008 23:20     SW SW846 ICP Digest   SW-846 3050B   1   02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:20Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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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 Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 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	47.5	0.476	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:23	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 23:23 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:23Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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Lancaster Laboratories Sample No. SW5275495 Group No. 1076648 SSB5-S-5.5-080206 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SSB5 Account Number: 10880 Collected:02/06/2008 09:57 by IH Submitted: 02/08/2008 09:50 ChevronTexaco

Reported: 02/14/2008 at 13:11 Discard: 03/16/2008

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	117.	0.485	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:27	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 23:27 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:27Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits



Discard: 03/16/2008



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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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:11 6001 Bollinger Canyon Rd L4310

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 63.5 0.476 mg/kg 1

State of California Lab Certification No. 2116

	Laboratory	/ Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:38	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory   Chronicle     Analysis Name   Method   Trial#   Date and Time     Lead   SW-846 6010B   1   02/12/2008 23:38     SW SW846 ICP Digest   SW-846 3050B   1   02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:38Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria 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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Peperted: 02/14/2008 at 12:12 6001 Pollinger Capyon Pd L42

Reported: 02/14/2008 at 13:12 Discard: 03/16/2008 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	14.3	0.480	mg/kg	1

State of California Lab Certification No. 2116

	Laboratory	/ Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:41	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Laboratory Analysis Name Method Lead SW-846 6010B SW SW846 ICP Digest SW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 23:41 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:41Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits



Discard: 03/16/2008



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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 Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:12 6001 Bollinger Canyon Rd L4310

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06955	Lead	7439-92-1	98.9	0.485	mg/kg	1

State of California Lab Certification No. 2116

		Laborator	y Chro	nicle		
CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06955	Lead	SW-846 6010B	1	02/12/2008 23:45	Thomas F McLamb Sr	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1





Page 1 of 1

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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:12 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 San Ramon CA 94583

				As Received					
CAT			As Received	ceived Method					
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor			
06955	Lead	7439-92-1	52.4	<b>Limit</b> 0.471	mg/kg	1			

State of California Lab Certification No. 2116

	Laboratory	/ Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:49	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory   Chronicle     Analysis Name   Method   Trial#   Date and Time     Lead   SW-846 6010B   1   02/12/2008 23:49     SW SW846 ICP Digest   SW-846 3050B   1   02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:49Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits



Discard: 03/16/2008



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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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:12 6001 Bollinger Canyon Rd L4310

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 42.2 0.480 mg/kg 1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/12/2008 23:52	Thomas F McLamb Sr	1
SW SW846 ICP Digest	SW-846 3050B	1	02/11/2008 20:25	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory Chronicle Analysis Name Method Trial# Date and Time Lead SW-846 6010B 1 02/12/2008 23:52 SW SW846 ICP Digest SW-846 3050B 1 02/11/2008 20:25	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/12/2008 23:52Thomas F McLamb SrSW SW846 ICP DigestSW-846 3050B102/11/2008 20:25Annamaria Stipkovits





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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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:12 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 San Ramon CA 94583

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 9.67 0.480 mg/kg 1

State of California Lab Certification No. 2116

		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 23:56	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 Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:12 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 San Ramon CA 94583

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 4.86 0.480 mg/kg 1

State of California Lab Certification No. 2116

		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 23:59	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. 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 Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:12 6001 Bollinger Canyon Rd L4310 Discard: 03/16/2008 San Ramon CA 94583

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 3.90 0.476 mg/kg 1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/14/2008 04:45	Choon Y Tian	1
SW SW846 ICP Digest	SW-846 3050B	1	02/13/2008 20:10	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory   Chronicle     Analysis Name   Method   Trial#   Date and Time     Lead   SW-846 6010B   1   02/14/2008 04:45     SW SW846 ICP Digest   SW-846 3050B   1   02/13/2008 20:10	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/14/2008 04:45Choon Y TianSW SW846 ICP DigestSW-846 3050B102/13/2008 20:10Annamaria Stipkovits



Discard: 03/16/2008



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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 by IH Account Number: 10880 Submitted: 02/08/2008 09:50 ChevronTexaco Reported: 02/14/2008 at 13:12 6001 Bollinger Canyon Rd L4310

As Received CAT As Received Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06955 Lead 7439-92-1 5.62 0.480 mg/kg 1

State of California Lab Certification No. 2116

	Laboratory	Chro	nicle		
	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
Lead	SW-846 6010B	1	02/14/2008 04:58	Choon Y Tian	1
SW SW846 ICP Digest	SW-846 3050B	1	02/13/2008 20:10	Annamaria Stipkovits	1
	<b>Analysis Name</b> Lead SW SW846 ICP Digest	Analysis NameMethodLeadSW-846 6010BSW SW846 ICP DigestSW-846 3050B	LaboratoryChrosAnalysis NameMethodTrial#LeadSW-846 6010B1SW SW846 ICP DigestSW-846 3050B1	Laboratory   Chronicle     Analysis Name   Method   Trial#   Date and Time     Lead   SW-846 6010B   1   02/14/2008 04:58     SW SW846 ICP Digest   SW-846 3050B   1   02/13/2008 20:10	Laboratory Chronicle AnalysisAnalysis NameMethodTrial#Date and TimeAnalystLeadSW-846 6010B102/14/2008 04:58Choon Y TianSW SW846 ICP DigestSW-846 3050B102/13/2008 20:10Annamaria Stipkovits



# Analysis Report

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# Quality Control Summary

Client Name: ChevronTexaco Reported: 02/14/08 at 01:12 PM Group Number: 1076648

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	<u>RPD Max</u>
Batch number: 080425708001 Lead	Sample n N.D.	umber(s): 0.490	5275482 mg/kg	101		90-110		
Batch number: 080425708002 Lead	Sample n N.D.	umber(s): 0.490	5275483-52 mg/kg	275502 103		90-110		
Batch number: 080445708001 Lead	Sample n N.D.	umber(s): 0.490	5275503-52 mg/kg	275504 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

<u>Analysis Name</u>	MS <u>%RE</u> (	MSD <u>C %REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 080 Lead	425708001 Sam 99	ple number( 100	s): 5275482 75-125	UNSPK: 0	P27548 20	30 BKG: P27 7.54	5480 7.79	3	20
Batch number: 080 Lead	425708002 Sam 149	ple number( (2) 117 (2	s): 5275483- 2) 75-125	-527550 5	2 UNSPM 20	K: 5275490 ( 67.2	BKG: 5275490 125.	60*	20
Batch number: 080 Lead	445708001 Sam 118	ple number( (2) 42325 (2)	s): 5275503- 75-125	-527550 182*	4 UNSPF 20	C: P263598 2 236.	BKG: P263598 267.	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.

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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
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 ml

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

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

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

U.S. EPA data qualifiers:

# **Organic Qualifiers**

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

# **Inorganic Qualifiers**

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

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

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

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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 VP3-S-4.5-080201 Grab Soil VP1-S-4.5-080201 Grab Soil VP1-S-8-080201 Grab Soil VP3-S-8-080201 Grab Soil VP2-S-4.5-080201 Grab Soil VP2-S-9.5-080201 Grab Soil SB8-S-19.5-080131 Grab Soil SB8-S-29.5-080131 Grab Soil SB8-S-39.5-080131 Grab Soil

ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO

Attn: I Hull

Attn: Charlotte Evans





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

Respectfully Submitted,

dirictin Dalles

Christine Dulaney Senior Specialist





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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

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

#### 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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.95
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.95
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.95
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.95
02020	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
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.95
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.95
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.95
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.95
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.95

State of California Lab Certification No. 2116

		Laboratory	Chror	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	02/07/2008 16:55	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. SW5272245		Group No. 1076	104			
VP3-S- Facili 2259 F Collec	P3-S-4.5-080201 Grab Soil   acility# 307233 CETE   259 First St-Livermore T0600196622 VP3   ollected:02/01/2008 09:35 by IH   Account Number: 10880							
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3			
LIV34	////			/ /		_		
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	2	02/14/2008 10:31	Diane V Do	1		
06955	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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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 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

#### LIV14

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

		Laboratory	Chro	nicle		
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 17:31	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. SW5272246		Group No. 1076	104				
VP1-S- Facili 2259 F Collec	VP1-S-4.5-080201 Grab Soil     Facility# 307233 CETE     2259 First St-Livermore T0600196622 VP1     Collected:02/01/2008 09:40   by IH   Account Number: 10880								
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3				
LIV14									
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 10:40	Diane V Do	1			
06955	Lead	SW-846 6010B	1	02/08/2008 10:54	Joanne M Gates	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/14/2008 19:48	Matthew E Barton	1			
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/12/2008 03:03	Kathrine K Muramatsu	0.98			
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 18:28	Lois E Hiltz	n.a.			
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 18:30	Lois E Hiltz	n.a.			
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 18:34	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 18:32	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. 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 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

#### 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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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)					
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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
05474	Ethylbenzene	100-41-4	N.D.	0.0009	mg/kg	0.94
06301	Xylene (Total)	1330-20-7	N.D.	0.0009	mg/kg	0.94

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle			
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 18:08	Linda C Pape	25	





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Lancas	ter Laboratories Sample	No. S	W5272247		Group No. 107	5104	
VP1-S- Facili 2259 F Collec	8-080201 Grab Soil ty# 307233 CETE irst St-Livermore T06001 ted:02/01/2008 10:00	. <b>96622</b> by IH	VP1	Ac	ccount Number: 1	10880	
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008			Cł 60 Sa	nevronTexaco )01 Bollinger Ca an Ramon CA 9458	anyon Rd L4310 33	
LIV18	THIN DO her 001ED re/Cilico	CHI 94C	00150	1	02/08/2008 11.00	Diana V Da	1
02222	Gel	SW-040	00138	T	02/08/2008 11:00	Dialle V DO	T
06955	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 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

#### LIV38

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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

		Laboratory	Chro	nicle		
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 19:57	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. S	SW5272248		Group No. 1076	104	
VP3-S- Facili 2259 F Collec	8-080201 Grab Soil ty# 307233 CETE irst St-Livermore T06001 ted:02/01/2008 11:15	.96622 by IH	<b>VP3</b> I	Ad	ccount Number: 1	0880	
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008			Cł 60 Sa	nevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
LIV38		GUL 0.4.6	00155	-	00/00/0000 11 10		-
02222	Gel	SW-846	8015B	T	02/08/2008 11:19	Diane V Do	T
06955	Lead	SW-846	6010B	1	02/08/2008 11:03	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846	8015B modified	1	02/14/2008 20:36	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846	8260B	1	02/11/2008 15:28	Nicholas R Rossi	0.96
00374	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	SW-846	5030A	2	02/06/2008 19:33	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846	5030A	1	02/06/2008 19:37	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 19:35	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. 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

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

#### LIV24

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GF	other 20 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
02516	TPH Fuels by GC (Soils)					
02518	Total TPH	n.a.	54.	10.	mg/kg	1
02552	TPH Motor Oil C16-C36	n.a.	54.	10.	mg/kg	1
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample on in a range that mal hydrocarbons.	e pattern to 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

		Laboratory	Chro	nicle		
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 20:34	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. SW5272249		Group No. 1076	104	
VP2-S- Facili 2259 F Collec	4.5-080201 Grab Soil ty# 307233 CETE irst St-Livermore T06001 ted:02/01/2008 11:24	<b>96622 VP2</b> by IH	I	Account Number: 1	.0880	
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008			ChevronTexaco 5001 Bollinger Ca San Ramon CA 9458	nyon Rd L4310 3	
LIV24						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 15:35	Diane V Do	1
06955	Lead	SW-846 6010B	1	02/08/2008 11:08	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	d 1	02/14/2008 22:58	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 15:51	Nicholas R Rossi	0.92
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:43	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:45	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 19:48	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 19:46	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. 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

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

#### LIV29

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.95
02017	di-Isopropyl ether	108-20-3	N.D.	0.0009	mg/kg	0.95
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.0009	mg/kg	0.95
02019	t-Amyl methyl ether	994-05-8	N.D.	0.0009	mg/kg	0.95
02020	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
05461	1,2-Dichloroethane	107-06-2	N.D.	0.0009	mg/kg	0.95
05466	Toluene	108-88-3	N.D.	0.0009	mg/kg	0.95
05471	1,2-Dibromoethane	106-93-4	N.D.	0.0009	mg/kg	0.95
05474	Ethylbenzene	100-41-4	N.D.	0.0009	mg/kg	0.95
06301	Xylene (Total)	1330-20-7	N.D.	0.0009	mg/kg	0.95

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
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 21:10	Linda C Pape	25




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Lancas	ter Laboratories Sample	No. SW5272250		Group No. 1076	5104	
VP2-S- Facili 2259 F Collec	9.5-080201 Grab Soil ty# 307233 CETE irst St-Livermore T06001 ted:02/01/2008 11:42	<b>.96622 VP2</b> by IH	A	.ccount Number: 1	.0880	
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008		C 6 S	chevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 33	
LIV29						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	2	02/08/2008 13:57	Diane V Do	1
06955	Lead	SW-846 6010B	1	02/08/2008 11:12	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/14/2008 22:34	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 16:14	Nicholas R Rossi	0.95
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 19:53	Lois E Hiltz	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 19:55	Lois E Hiltz	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 20:00	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 19:57	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. 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 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

#### LI819

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
02222	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
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	Chroi	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	02/07/2008 21:47	Linda C Pape	25



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Lancas	ter Laboratories Sample	No. SW5272251		Group No. 1076	104	
SB8-S- Facili 2259 F Collec	<b>19.5-080131 Grab Soil ty# 307233 CETE irst St-Livermore T06001</b> ted:01/31/2008 09:15	<b>.96622 SB8</b> by IH	A	ccount Number: 1	0880	
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008		C] 6 S	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
LI819						
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 11:39	Diane V Do	1
06955	Lead	SW-846 6010B	1	02/08/2008 11:26	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/14/2008 20:59	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 17:00	Nicholas R Rossi	1.02
00374	GC/MS - Bulk Sample Prep	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.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 20:10	Eric L Vera	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 20:09	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	02/07/2008 14:35	Doreen K Robles	1





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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 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

#### LI829

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
02222	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
02552	TPH Motor Oil C16-C36	n.a.	N.D.	10.	mg/kg	1
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	Chror	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	02/07/2008 22:23	Linda C Pape	25



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Lancas	ter Laboratories Sample	No. SW5272252		Group No. 1076	104			
SB8-S- Facili 2259 F Collec	SB8-S-29.5-080131 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SB8 Collected:01/31/2008 10:35 by IH Account Number: 10880							
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3			
LI829								
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 11:58	Diane V Do	1		
06955	Lead	SW-846 6010B	1	02/08/2008 11:31	Joanne M Gates	1		
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	l 1	02/14/2008 21:23	Matthew E Barton	1		
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 17:23	Nicholas R Rossi	0.96		
00374	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.		
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 20:12	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 20:10	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. 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

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

#### LI834

				As Received		
CAT			As Received	Method		Dilution
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 I gasoline constituents eluting p start time	PH-GRO does no prior to the C6	ot include MTBE c 5 (n-hexane) TPH-	or other -GRO range		
02222	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
	that of a hydrocarbon component C8 (n-octane) through C40 (n-te The chlorobenzene surrogate dat matrix problems evident in the	mix calibrati tracontane) no a is outside t sample chromat	lon in a range th prmal hydrocarbor the QC limits due togram.	nat includes ns. e to unresolvable		
07361	BTEX+5 Oxygenates+EDC+EDB					
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
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.054	mg/kg	53.76
02019	t-Amyl methyl ether	994-05-8	N.D.	0.054	mg/kg	53.76
02020	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	Ethylbenzene	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
	The GC/MS volatile analysis was	performed acc	cording to the hi	igh level		
	soil method due to the level of	non-target co	ompounds. Theref	fore, the		
	reporting limits were raised.					

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.





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Lancaster Laboratories Sample No. SW5272253

Group No. 1076104

Account Number: 10880

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

 SB8-S-34.5-080131 Grab Soil

 Facility# 307233 CETE

 2259 First St-Livermore T0600196622 SB8

 Collected:01/31/2008 10:40 by IH

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

LI834

CAT		Laboratory	Chro	nicle 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
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 12:18	Diane V Do	1
06955	Lead	SW-846 6010B	1	02/08/2008 11:35	Joanne M Gates	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	02/14/2008 21:47	Matthew E Barton	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/07/2008 21:59	Roy R Mellott Jr	53.76
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.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 20:15	Eric L Vera	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 20:17	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	02/07/2008 14:35	Doreen K Robles	1





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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

				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 TP. gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to includes		
07361	BTEX+5 Oxygenates+EDC+EDB					
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
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.97
02020	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
05466	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
05474	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	Chroi	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	02/08/2008 02:57	Linda C Pape	25



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Page 2 of 2

Lancas	ter Laboratories Sample	No. SW5272254		Group No. 1076	5104			
SB8-S- Facili 2259 F Collec	<b>SB8-S-39.5-080131 Grab Soil Facility# 307233 CETE 2259 First St-Livermore T0600196622 SB8</b> Collected:01/31/2008 10:45 by IH Account Number: 10880							
Submit Report Discar	ted: 02/06/2008 10:10 ed: 02/20/2008 at 14:34 d: 03/22/2008		( ( :	ChevronTexaco 6001 Bollinger Ca San Ramon CA 9458	anyon Rd L4310 33			
LI839								
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/08/2008 12:38	Diane V Do	1		
06955	Lead	SW-846 6010B	1	02/08/2008 09:45	Joanne M Gates	1		
02516	TPH Fuels by GC (Soils)	SW-846 8015B modifie	d 1	02/14/2008 22:10	Matthew E Barton	1		
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/11/2008 17:47	Nicholas R Rossi	0.97		
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	02/06/2008 20:18	Lois E Hiltz	n.a.		
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	02/06/2008 20:20	Lois E Hiltz	n.a.		
01150	GC - Bulk Soil Prep	SW-846 5030A	1	02/06/2008 20:23	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 20:21	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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## Quality Control Summary

Client Name: ChevronTexaco Reported: 02/20/08 at 02:34 PM Group Number: 1076104

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD Limits	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08037A31B TPH-GRO - Soils	Sample N.D.	number(s): 1.0	5272245-52 mg/kg	272252 82		67-119		
Batch number: 080380006A TPH-DRO by 8015B w/Silica Gel	Sample N.D.	number(s): 4.0	5272246-52 mg/kg	272254 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	272254 90	90	66-113	0	20
Batch number: 080385708002 Lead	Sample N.D.	number(s): 0.490	5272245-52 mg/kg	272254 96		90-110		
Batch number: 08038A02A TPH-GRO - Soils	Sample N.D.	number(s): 1.0	5272253-52 mg/kg	272254 93		67-119		
Batch number: 080430010A TPH-DRO by 8015B w/Silica Gel	Sample N.D.	number(s): 4.0	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
Batch number: B080421AB	Sample	number(s):	5272247-52	72252,52	272254			
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	104	105	72-117	1	30
di-Isopropyl ether	N.D.	0.001	mg/kg	97	101	72-120	4	30
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-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-Dichioroethane	N.D.	0.001	mg/kg	106	108	/6-135	2	30
1 2 Dibromoothano	N.D.	0.001	mg/kg	90	102	01-110 77 114	4	30
Fthylbenzene	N.D.	0.001	mg/kg	95	97	92_115	1	30
Xylene (Total)	N.D.	0.001	mg/kg	98	98	82-117	0	30
Batch number: B080422AA	Sample	number(s):	5272245-52	72246				
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	99	96	72-117	4	30
di-Isopropyl ether	N.D.	0.001	mg/kg	94	96	72-120	2	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	95	94	67-124	1	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	97	93	73-116	5	30
t-Butyl alcohol	N.D.	0.020	mg/kg	98	105	66-146	7	30
Benzene	N.D.	0.0005	mg/kg	98	103	84-115	5	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	101	113	76-135	11	30
Toluene	N.D.	0.001	mg/kg	96	103	81-116	./	30
1,2-Dibromoethane Ethylbenzene	N.D. N.D.	0.001 0.001	mg/kg mg/kg	101 93	103 99	82-115	2 6	30 30

\*- Outside of specification

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





Page 2 of 5

## Quality Control Summary

Client Name: ChevronTexaco Reported: 02/20/08 at 02:34 PM Group Number: 1076104

## Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD Limits	RPD	<u>RPD Max</u>
Xylene (Total)	N.D.	0.001	mg/kg	96	101	82-117	5	30
Batch number: R080371AC	Sample numb	per(s): 52	72253					
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	100	100	72-115	0	30
t-Amyl methyl ether	N.D.	0.050	mg/kg	98	100	73-116	3	30
t-Butyl alcohol	N.D.	1.0	mg/kg	102	111	59-154	8	30
Benzene	N.D.	0.025	mg/kg	103	104	84-115	1	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	105	108	76-126	3	30
Toluene	N.D.	0.050	mg/kg	108	110	81-116	1	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	106	112	77-114	6	30
Ethylbenzene	N.D.	0.050	mg/kg	107	110	82-115	3	30
Xylene (Total)	N.D.	0.050	mg/kg	106	108	82-117	2	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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 08037A31B TPH-GRO - Soils	Sample 86	number(s) 87	: 5272245 39-118	-527225 2	2 UNSPK 30	C: P262899			
Batch number: 080385708002 Lead	Sample 94	number(s) 100	: 5272245 75-125	-527225 4	4 UNSPK 20	C: 5272254 8.93	BKG: 5272254 9.69	8	20
Batch number: 08038A02A TPH-GRO - Soils	Sample 74	number(s) 80	: 5272253 39-118	-527225 8	4 UNSPK 30	C: 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)	Sample 100 100 97 98 127 94 116 94 97 90 94	number(s)	$\begin{array}{c} : 5272247 \\ 59-119 \\ 58-113 \\ 60-112 \\ 63-112 \\ 50-143 \\ 66-112 \\ 62-130 \\ 58-116 \\ 66-108 \\ 54-116 \\ 52-117 \end{array}$	-527225	2,52722	254 UNSPK:	P275147		
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* 102 105 103	number(s)	$\begin{array}{c} : 5272245 \\ 59-119 \\ 58-113 \\ 60-112 \\ 63-112 \\ 50-143 \\ 66-112 \\ 62-130 \\ 58-116 \end{array}$	-527224	6 UNSPK	: 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 Reported: 02/20/08 at 02:34 PM Group Number: 1076104

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	MAX	Conc	Conc	RPD	Max
1,2-Dibromoethane	96		66-108						
Ethylbenzene	99		54-116						
Xylene (Total)	102		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: 08037A31B Trifluorotoluene-F

5272248 5272249 5272250 5272251 5272252 5272253 5272254 Blank LCS LCSD	101 96 98 104 106 99 102 115 115 111
5272248 5272250 5272251 5272251 5272252 5272253 5272254 Blank LCS LCSD	101 96 98 104 106 99 102 115 111
5272248 5272250 5272250 5272251 5272252 5272253 5272254 Blank LCS	101 96 98 104 106 99 102 115
5272248 5272249 5272250 5272251 5272252 5272253 5272254 Blank	101 96 98 104 106 99 102
5272248 5272249 5272250 5272251 5272252 5272253 5272254	101 96 98 104 106 99
5272248 5272249 5272250 5272251 5272252 5272253	101 96 98 104 106
5272248 5272249 5272250 5272251 5272252	101 96 98 104
5272248 5272249 5272250 5272251	101 96 98
5272248 5272249 5272250	101 96
5272248 5272249	101
52/2248	
E0 E0 0 4 0	98
5272247	99
5272246	101
	Orthoterphenyl
Limits: Analysis N Batch numb	61-122 Jame: TPH-DRO by 8015B w/Silica Gel
MSD	91
MS	
LCS	101
Blank	85
5272252	85
5272251	77
5272250	0* 20
341449	
5272240	87
5272248 5272248 5272249	
5272246 5272247 5272248 5272249	91

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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## Quality Control Summary

Client Name: ChevronTexaco Reported: 02/20/08 at 02:34 PM Group Number: 1076104

## Surrogate Quality Control

5272246	84	99		
5272247	77	97		
5272248	95	99		
5272249	82	98		
5272250	75	97		
5272251	94	95		
5272252	96	98		
5272253	0*	97		
5272254	92	95		
Blank	85	98		
LCS	85	103		
ПСЭД	80	100		
Limits:	37-125	47-145		
Analysis N	Name: TPH-GRO - Soils			
Batti IIuliu	Trifluorotoluene-F			
5272253	84			
5272255	86			
Blank	91			
LCS	101			
MS	83			
MSD	87			
Limite	61-122			
Batch numb	Orthoterphenyl			
5272245	101			
Blank	106			
LCS	119			
LCSD	121			
Limits:	59-129			
Analysis N	Name: TPH Fuels by GC (Soi	ls)		
Batch numb	Der: 080500001A			
	Cnioropenzene	ortnoterpnenyl		
5272245	77	105		
Blank	97	107		
LCS	101	112		
LCSD	107	111		
Limits:	37-125	47-145		
Analysis M	Name: BTEX+5 Oxygenates+ED	C+EDB		
Batch numb	per: B080421AB			
	Dibromotluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzen
5272247	104	100	96	82
5272248	108	102	96	83
5272249	107	98	98	81

\*- 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 N Reported	ame: ChevronTexaco	DM	Group Number: 1076104	
Reported	. 02/20/00 at 02.54	Surrogate (	Duality Control	
5272250	107	99	97	82
5272251	105	99	97	83
5272252	102	100	97	85
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
Limits:	71-114	70-109	70-123	70-111
Analysis N Batch numb	ame: BTEX+5 Oxygenates+ED er: B080422AA	C+EDB	Tolyono de	4 Dromofluorobongono
	DIDIONOLIUOIONECHANE	1,2-Dichioroechane-04	Toruelle-d8	4-Bromorruorobenzene
5272245	101	103	96	82
5272246	100	102	95	81
Blank	102	105	96	85
LCS	98	102	99	91
LCSD	101	98	101	96
MS	98	95	101	90
Limits:	71-114	70-109	70-123	70-111
Analysis N Batch numb	ame: BTEX+5 Oxygenates+ED er: R080371AC	C+EDB		
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5272253	88	88	98	96
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

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

California R	egion	Ana	lysi	s Reques	t/Cha	ain of Custody
·	Acct. #: 10	880	Fo Sample i	r Lancaster Laborator #: <u>52722.45</u>	ies use only 259	y 241887
25-20			An	alyses Requested		Group 1076104
$\frac{11124}{1142}$	X     X     X     Stab       -     -     -     -       -     -     -     -       Total Number of Containers	×     × </td <td></td> <td>Eservation Codes</td> <td></td> <td>Preservative Codes H = HCl T = Thiosulfate N = HNO<sub>3</sub> B = NaOH S = H<sub>2</sub>SO<sub>4</sub> O = Other J value reporting needed Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation Confirm highest hit by 8260 Confirm all hits by 8260 Run oxy's on highest hit Run oxy's on all hits Comments / Remarks Erva: 1 results to CeVCNS Coraworld. Thull Com EDF to : d ohar coraworld.</td>		Eservation Codes		Preservative Codes H = HCl T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other J value reporting needed Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation Confirm highest hit by 8260 Confirm all hits by 8260 Run oxy's on highest hit Run oxy's on all hits Comments / Remarks Erva: 1 results to CeVCNS Coraworld. Thull Com EDF to : d ohar coraworld.
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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
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 ml

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

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

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

U.S. EPA data qualifiers:

## **Organic Qualifiers**

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

## **Inorganic Qualifiers**

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

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

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

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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 SB-8-S-SHALLOW-080128 Composite Soil SB-9-S-SHALLOW-080128 Composite Soil SB-6-S-SHALLOW-080128 Composite Soil SB-7-S-SHALLOW-080128 Composite Soil

ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Lancaster Labs Number 5267812 5267813 5267814 5267815

Attn: Charlotte Evans

Attn: I Hull





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

Respectfully Submitted,

dirictin Dalles

Christine Dulaney Senior Specialist





Page 1 of 2

Lancaster Laboratories Sample No. SW5267812

Group No. 1075337

Account Number: 10880

### 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 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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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
07361	C8 (n-octane) through C40 (n-tet Due to the nature of the sample the analysis. The reporting lim BTEX+5 Oxygenates+EDC+EDB	racontane) nor extract matrix its were raise	mal hydrocarbons. , a dilution was d accordingly.	used for		
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



1 01/30/2008 20:45 Eric L Vera

1 01/31/2008 15:30 Doreen K Robles 2 01/31/2008 15:30 Doreen K Robles

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Dilution

Factor

25

1

1

2

0.93

n.a.

n.a.

n.a.

n.a.

1 1

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 Account Number: 10880 Collected:01/28/2008 09:45 by IH Submitted: 01/30/2008 12:50 ChevronTexaco Reported: 02/11/2008 at 11:32 6001 Bollinger Canyon Rd L4310 Discard: 03/13/2008 San Ramon CA 94583 FLSB8 CAT Analysis Analysis Name Method Trial# Date and Time Analyst No. SW-846 8015B modified 1 TPH-GRO - Soils 01725 01/31/2008 18:36 Linda C Pape 02/04/2008 11:45 Diane V Do TPH-DRO by 8015B w/Silica SW-846 8015B 02222 1 Gel 06955 Lead SW-846 6010B 02/08/2008 06:42 Joanne M Gates 1 02516 TPH Fuels by GC (Soils) SW-846 8015B modified 1 02/05/2008 23:30 Matthew E Barton 07361 BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 01/31/2008 22:02 Kelly E Brickley 
 00374
 GC/MS - Bulk Sample Prep
 SW-846
 5030A

 00374
 GC/MS - Bulk Sample Prep
 SW-846
 5030A

 01150
 GC - Bulk Soil Prep
 SW-846
 5030A
 01/30/2008 20:48 Eric L Vera 1 01/30/2008 20:46 Eric L Vera 2 01/30/2008 20:47 Eric L Vera GC - Bulk Soil Prep 1 05708 SW SW846 ICP Digest 1 02/07/2008 19:40 Annamaria Stipkovits 1

SW-846 3050B

06646 GC/MS HL Bulk Sample Prep SW-846 5030A

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

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





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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			As Peceived	As Received		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
01725	TPH-GRO - Soils	n.a.	1.3	1.0	mg/kg	25
	The reported concentration of TP gasoline constituents eluting pr start time.	PH-GRO does not rior to the C6	include MTBE or (n-hexane) TPH-GR	other O 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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratio racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	Chro	nicle				
CAT		-		Analysis		Dilution		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
01725	TPH-GRO - Soils	SW-846 8015B modified	1	01/31/2008 19:13	Linda C Pape	25		





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Lancas	ter Laboratories Sample	No. SW5267813		Group No. 1075	337		
SB-9-S Facili 2259 F Collec	-SHALLOW-080128 Composit ty# 307233 CETE irst St-Livermore T06001 ted:01/28/2008 11:05	:e Soil .96622 SB-9 by IH	A	ccount Number: 1	0880		
Submit Report Discar	ted: 01/30/2008 12:50 ed: 02/11/2008 at 11:32 d: 03/13/2008		ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583				
FLSB9							
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/01/2008 17:53	Diane V Do	1	
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 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

#### FLSB6

				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 TP gasoline constituents eluting pr start time.	H-GRO does not ior to the C6	include MTBE or (n-hexane) TPH-GR	other O range		
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	pattern to 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	Chro	nicle		
CAT				Analysis	Dilutio	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	01/31/2008 19:50	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. SW5267814		Group No. 1075	337			
SB-6-S Facili 2259 F Collec	-SHALLOW-080128 Composit ty# 307233 CETE irst St-Livermore T06003 ted:01/28/2008 13:25	<b>26 Soil</b> 1 <b>96622 SB-6</b> by IH	А	ccount Number: 1	0880			
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								
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/01/2008 17:14	Diane V Do	1		
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

Submitted: 01/30/2008 12:50 Reported: 02/11/2008 at 11:32 Discard: 03/13/2008 Account Number: 10880

An Bonoired

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### FLSB7

				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 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	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
07361	that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) nor	on in a range tha mal hydrocarbons	t includes		
00016	Matharl Martiana Dutral Dthan	1624 04 4	ND	0.0005		1 01
02010	di Taanuanul athau	100 00 0	N.D.	0.0005	ilig/kg	1.01
02017	al-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.01
02010	t Javil mother	637-92-3	N.D.	0.001	mg/kg	1.01
02019	t-Amyi metnyi ether	994-05-8	N.D.	0.001	llig/kg	1.01
02020	t-Butyl alconol	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	Chro	nicle		
CAT		-		Analysis	Diluti	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01725	TPH-GRO - Soils	SW-846 8015B modified	1	01/31/2008 20:30	Linda C Pape	25





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Lancas	ter Laboratories Sample	No. SW5267815		Group No. 1075	337			
SB-7-S Facili 2259 F Collec	-SHALLOW-080128 Composit ty# 307233 CETE irst St-Livermore T06003 ted:01/28/2008 15:00	ce Soil 196622 SB-7 by IH	A	ccount Number: 1	0880			
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								
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	02/01/2008 17:34	Diane V Do	1		
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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08030A34B TPH-GRO - Soils	Sample numb N.D.	per(s): 5 1.0	5267812-526 mg/kg	7815 102		67-119		
Batch number: 080310009A TPH-DRO by 8015B w/Silica Gel	Sample numb N.D.	per(s): 5 4.0	5267812-526 mg/kg	7815 104	97	71-109	7	20
Batch number: 080310010A Total TPH TPH Motor Oil C16-C36	Sample numb N.D. N.D.	per(s): 5 10. 10.	5267812-526 mg/kg mg/kg	7815 78	79	66-113	2	20
Batch number: 080385708001 Lead	Sample numb N.D.	per(s): 5 0.490	5267812-526 mg/kg	7815 93		90-110		
Batch number: B080312AA	Sample numb	per(s): 5	5267812-526	7815				
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	98	96	72-117	3	30
di-Isopropyl ether	N.D.	0.001	mg/kg	90	87	72-120	4	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	94	91	72-115	4	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	94	91	73-116	3	30
t-Butyl alcohol	N.D.	0.020	mg/kg	95	92	59-154	3	30
Benzene	N.D.	0.0005	mg/kg	95	90	84-115	6	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	118	114	76-126	3	30
Toluene	N.D.	0.001	mg/kg	96	90	81-116	6	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	99	97	77-114	1	30
Ethylbenzene	N.D.	0.001	mg/kg	93	88	82-115	5	30
Xylene (Total)	N.D.	0.001	mg/kg	93	88	82-117	5	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 <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 08030A34B TPH-GRO - Soils	Sample 97	number(s) 104	: 5267812- 39-118	526781 8	5 UNSPK 30	: P262899			
Batch number: 080385708001 Lead	Sample 154*	number(s) 176*	: 5267812- 75-125	526781 6	5 UNSPK 20	: 5267812 21.9	BKG: 5267812 28.0	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	526781	5 UNSPK	2: 5267812			

\*- Outside of specification

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



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

Page 2 of 3

## Quality Control Summary

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

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	MAX	Conc	Conc	RPD	Max
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

 5267812
 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 Chlorobenzene Orthoterphenyl

5267812	97	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.





Page 3 of 3

## Quality Control Summary

Client	Nan	ne:	Che	vrc	onTe	exaco	
Reporte	ed:	02,	/11/	8 0	at	11:32	AM

Group Number: 1075337

## Surrogate Quality Control

LCS	105	101		
LCSD	109	101		
Limits:	37-125	47-145	·	
Analysis N	Jame: BTEX+5 Oxygenates+ED	DC+EDB		
Batch numb	per: B080312AA			
	Dibromofluoromethane	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
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

Where quality is a science.		Acct. #: _	0880	For Sample #	Lancaste	r Laboratories use onl 7812 - 15	y 243479 
	8-96			Ana	alyses Re	equested	Grp#1075337
Facility #: <u>30-7233</u> AIL Site Address: <u>22.59</u> <u>FIPST ST.</u> <u>LIVER</u> Chevron PM: <u>POBB</u> Lead Consultant: Consultant/Office: <u>EMERYVILLE</u> Consultant Pri. Mgr.; C. EVANS	NORE CRA	ontainers	8021	Silica Gel Cleanup		n Codes	Preservative Codes $H = HCI$ $T = Thiosulfate$ $N = HNO_3$ $B = NaOH$ $S = H_2SO_4$ $O = Other$ $\Box$ J value reporting needed $\Box$ Must meet lowest detection limits possible for 8260 compounds
Consultant Phone #: <u>510 - 420 - 3344</u> Fax #: <u>5</u> Sampler: <u>1H</u> Service Order #: <u>INon SAR:</u> Field Point Name Matrix Sample Dopth Yoor Month	0 - 420 - 9170	Brab Somposite otal Number of Co	TEX + 415 HOD GRO	PH 8015 MOD DRO K 260 full scan 7 Oxvoenates	Bad Area Day		8021 MTBE Confirmation Confirm highest hit by 8260 Confirm all hits by 8260 Run oxy's on highest hit Run oxy's on all hits
SB# 8-5-54/2000 S SB# 9-5-54/2000 S SB# 6-5-54/2000 S SB # 7-5-54/2000 S 	28 0945 1\05 1325 1500						Comments / Remarks Place e-mail resultst: CEVans ihull both @craworld.com EDF to: dohare@craworld. com
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Data Package Options (please circle if required)         QC Summary       Type 1 – Full         Type VI (Raw Data)          ☐ Coelt Deliverable not needed         WIP (RWQCB)          ☐ Sik	Relinquished by Commo UPS FedEx Temperature Upon Rec	ercial Carrier Other ceipt <u>0.7-3</u>	290 014k c°	TAM98		Received by: Custody Seals Intact?	Yes Date Time

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.	none detected	BMQL	Below Minimum Quantitation Level
	International Units		NOSt Probable Nulliber
	international Units	CP Units	cobait-chioroplatinate 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)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

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

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

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

U.S. EPA data qualifiers:

## **Organic Qualifiers**

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

## **Inorganic Qualifiers**

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

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

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

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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 Lancaster Labs Number 5272263

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,

Jaime L. Ferguson

Senior Specialist









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 by IH

Submitted: 02/06/2008 10:10 Reported: 03/11/2008 at 10:03 Discard: 04/11/2008 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

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

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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

		METHODS:	ASP RP40/ ASTM D2216	API RP40	API RP40	ASTM D425M
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	DENSITY BULK, g/∝	TOTAL POROSITY, %Vb	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							
		SAMPLE	POROSITY, %Vb (2)								
SAMPLE	DEPTH, ft.	ORIENTATION (1)	TOTAL	AIR-FILLED	WATER-FILLED						
VP1-S-8-080201	N/A	V	33.9	23.7	10.2						

(1) 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 File No: 38098 Client: Lancaster Laboratories

## **ORGANIC CARBON DATA - TOC**

PROJECT NAME:	NA
PROJECT NO:	5272263

		METHOD:	WALKLEY-BLACK
SAMPLE	DEPTH, ft.	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg
VP1-S-8-080201	N/A	SOIL	490

Where quality is a	aborato	ries						3	80	9 B			#10
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2425 New Holland Pike Lancaster, PA 17601-5994 (717) 656 2301 - Fax (717) 656 2691

### Lancaster Laboratories Explanation of Symbols and Abbreviations

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N.D.	none detected	BMQL	Below Minimum Quantitation Level
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 ml

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

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

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

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

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

#### **Inorganic Qualifiers**

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

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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 Description CPT1-W-080205 Grab Water Lancaster Labs Number 5273882

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,

diretin Palles

Christine Dulaney Senior Specialist









Page 1 of 2

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

Submitted: 02/07/2008 09:20 Reported: 02/21/2008 at 14:05 Discard: 03/23/2008 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

CPT1-

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	3,300.	50.	ug/l	1
	The reported concentration of gasoline constituents eluting start time.	TPH-GRO does no prior to the C6	ot include MTBE c 5 (n-hexane) TPH-	or other GRO range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	47,000.	7,300.	ug/l	25
	Due to the nature of the sample	e matrix, a rec	duced aliquot was	used		
	for analysis. The reporting l	imits were rais	sed accordingly.			
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/l	1
	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 chlorobenzene surrogate da matrix problems evident in the	t mix calibrati etracontane) no e matrix, a rec imits were rais ta is outside t sample chromat	ion in a range th prmal hydrocarbor duced aliquot was sed accordingly. the QC limits due cogram.	at includes as. used to unresolvable		
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.





Page 2 of 2

Lancaster Laboratories Sample No. WW5273882

CPT1-W-080205 Grab Water Facility# 307233 CETE 2259 First St-Livermore T0600196622 CPT1 Collected:02/05/2008 12:30 by IH

Submitted: 02/07/2008 09:20 Reported: 02/21/2008 at 14:05 Discard: 03/23/2008

CPT1-

Group No. 1076369

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

CAT		Laboratory	Chro	nicle 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 (Waters)	SW-846 3510C	1	02/10/2008 10:00	Kelli M Knapp	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	02/09/2008 08:00	Olivia I Santiago	1



# **Analysis Report**

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Page 1 of 2

#### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/21/08 at 02:05 PM Group Number: 1076369

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 080390019A Total TPH TPH Motor Oil C16-C36	Sample n N.D. N.D.	umber(s): 40. 40.	5273882 ug/l ug/l	84	81	60-120	3	20
Batch number: 080400004A TPH-DRO (Water) w/Si Gel	Sample n N.D.	umber(s): 29.	5273882 ug/l	100	98	60-124	3	20
Batch number: 08050A54A TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	5273882 ug/l	93	89	75-135	4	30
Batch number: D080421AA	Sample n	umber(s):	5273882					
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	103		73-119		
di-Isopropyl ether	N.D.	0.5	ug/l	110		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/l	111		74-120		
t-Amyl methyl ether	N.D.	0.5	ug/l	108		79-113		
t-Butyl alcohol	N.D.	2.	ug/l	117		74-117		
Benzene	N.D.	0.5	ug/l	104		78-119		
1,2-Dichloroethane	N.D.	0.5	ug/l	105		69-135		
Toluene	N.D.	0.5	ug/l	103		85-115		
1,2-Dibromoethane	N.D.	0.5	ug/l	94		81-114		
Ethylbenzene	N.D.	0.5	ug/l	103		82-119		
Xylene (Total)	N.D.	0.5	ug/l	103		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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: D080421AA	Sample n	umber(s):	5273882	UNSPK:	P27310	0			
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	30				
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

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



# **Analysis Report**

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Page 2 of 2

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/21/08 at 02:05 PM Group Number: 1076369

#### 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 1	Name: TPH Fuels by GC (Wat	ers)		
Batch num	Chlorobenzene	Orthoternhenvl		
	enrorobenzene	orenoccipitenyi		
5273882	0*	86		
Blank	81	92		
LCS	91	102		
LCSD	88	96		
Limits:	28-152	52-131		
Analysis 1	Name: TPH-DRO (Water) w/Si	Gel		
Batch num	per: 080400004A			
	Orthoterphenyl			
5273882	92			
Blank	99			
LCS	115			
LCSD	115			
Limits:	59-131			· · · · · · · · · · · · · · · · · · ·
Analysis M Batch numM	Name: TPH-GRO - Waters ber: 08050A54A Trifluorotoluene-F			
5273882	126			
Blank	83			
LCS	99			
LCSD	98			
Limits:	63-135			
Analysis 1	Name: BTEX+5 Oxygenates+ED	C+EDB		
Batch num	ber: D080421AA		<b>T</b> ] ]0	
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
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
Limits:	80-116	77-113	80-113	78-113

\*- Outside of specification

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

# 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.	none detected	BMQL	Below Minimum Quantitation Level
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 ml

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

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

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

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

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

#### **Inorganic Qualifiers**

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

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

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

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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.

<u>Client Description</u> SB7-W-080130 Grab Water SB6-W-080130 Grab Water Lancaster Labs Number 5269524 5269525

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,

Ausan M Goshert

Susan M. Goshert Group Leader





Page 1 of 2

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
	The reported concentration of TE gasoline constituents eluting pr start time.	PH-GRO does not rior to the C6	include MTBE or (n-hexane) TPH-GF	other RO range	<i>(</i> -	
02202	TPH-DRO (Water) w/Si Gel	n.a.	6,400.	290.	ug/l	1
	Due to the nature of the sample	matrix, a redu	iced aliquot was i	ısed		
	for analysis. The reporting lim	its were raise	ed accordingly.			
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet Due to the nature of the sample	uk area compari mix calibratic racontane) nor matrix, a redu	son of the sample on in a range that mal hydrocarbons. aced aliquot was a	e pattern to includes ised		
	for analysis. The reporting lim	its were raise	ed accordingly.			
	The surrogate data is outside th	e QC limits du	e to unresolvable	e matrix		
	problems evident in the sample of	hromatogram.				
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/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	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	uq/l	1
	Preservation requirements were n	ot met. The v	vial submitted for	r volatile	5.	
	analysis did not have a pH < 2 a	t the time of	analysis. Due to	b the		
	volatile nature of the analytes.	it is not app	propriate for the	laboratory		
	to adjust the pH at the time of	sample receipt	. The pH of this	sample		
	was $pH = 4$ .	I IIII	<u> </u>	÷		
	<b>_</b>					

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





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Dilution

Lancaster Laboratories Sample No. WW5269524

Group No. 1075634

Account Number: 10880

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

 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

LVSB7

CAT

					As Received		
CAT				As Received	Method		Dilution
No.	Analysis	Name	CAS Number	Result	Detection Limit	Units	Factor

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

### Laboratory Chronicle

0111				imarybrb		DIIGUIUM
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 (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



# Analysis Report

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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 Limit	Units	Factor
01728	TPH-GRO - Waters	n.a.	110.	50.	ug/l	1
	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-GR	other O range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	300.	290.	ug/l	1
	Due to the nature of the sample :	matrix, a redu	ced aliquot was u	sed		
	for analysis. The reporting lim	its were raise	d accordingly.			
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
	that of a hydrocarbon component C8 (n-octane) through C40 (n-tet Due to the nature of the sample for analysis. The reporting lim	mix calibratio racontane) nor matrix, a redu its were raise	n in a range that mal hydrocarbons. ced aliquot was u d accordingly.	includes sed		
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.





Page 2 of 2

Lancaster Laboratories Sample No. WW5269525

Group No. 1075634

Account Number: 10880

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

**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

LVSB6

		Laboratory	Chro	nicle		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	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	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



# **Analysis Report**

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

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	<u>RPD Max</u>
Batch number: 080350004A TPH-DRO (Water) w/Si Gel	Sample n N.D.	umber(s): 29.	5269524-5 ug/l	269525 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.	5269524-5 ug/l ug/l	269525 86	85	60-120	1	20
Batch number: 08036A08A TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	5269524-5 ug/1	269525 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	Sample n N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	<pre>uumber(s): 0.5 0.5 0.5 2. 0.5 0.5 0.5 0.5 0.5 0.5</pre>	5269524-5 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	269525 101 111 107 104 96 106 96 108 108 100 103		73-119 70-123 74-120 79-113 74-117 78-119 69-135 85-115 81-114 82-119		
Xylene (Total)	N.D.	0.5	ug/l	105		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 <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 08036A08A TPH-GRO - Waters	Sample 118	number(s)	): 5269524 63-154	1-52695	25 UNSE	PK: P269385			
Batch number: D080372AA	Sample	number(s)	): 5269524	1-52695	25 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.





Page 2 of 3

#### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/13/08 at 12:11 PM Group Number: 1075634

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
<u>Analysis Name</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	RPD	MAX	Conc	Conc	RPD	Max

#### 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	95			
5269525	92			
Blank	91			
LCS	108			
LCSD	108			
Limits:	59-131			
Analysis 1	Name: TPH Fuels by GC (Wat	ers)		
Batch num	ber: 080350028A			
	Chlorobenzene	Orthoterphenyl		
5269524	625*	87		
5269525	100	91		
Blank	97	95		
LCS	101	97		
LCSD	100	96		
Limits:	28-152	52-131		
Analysis I	Name: TPH-GRO - Waters			
Batch num	ber: 08036A08A			
	Trifluorotoluene-F			
5269524	94			
5269525	82			
Blank	79			
LCS	83			
LCSD	85			
MS	82			
Limits:	63-135			
Analysis 1	Name: BTEX+5 Oxygenates+ED	C+EDB		
Batch num	ber: 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.





Page 3 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/13/08 at 12:11 PM Group Number: 1075634

- <u>F</u>	, . ,	Surrogate Qu	ality Control	
LCS	90	98	97	100
MS	92	100	98	101
MSD	87	95	93	95
Limits:	80-116	77-113	80-113	78-113

\*- Outside of specification

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

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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
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 ml

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

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

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

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

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

#### **Inorganic Qualifiers**

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

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

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

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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.

<u>Client Description</u> CPT2-W-080204 Grab Water SB8-W-080131 Grab Water Lancaster Labs Number 5272376 5272377

1 COPY TO CRA 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,

Ausan M Goshert

Susan M. Goshert Group Leader





Page 1 of 2

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 Account Number: 10880

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 gasoline constituents eluting start time.	TPH-GRO does no prior to the Co	ot include MTBE o 5 (n-hexane) TPH-	or other -GRO range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	10,000.	290.	ug/l	1
	Due to the nature of the sampl	e matrix, a reo	duced aliquot was	s used		
	for analysis. The reporting l	imits were rais	sed accordingly.			
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/l	1
	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 chlorobenzene surrogate da matrix problems evident in the	t mix calibrat: etracontane) no e matrix, a reo imits were rais ta is outside t sample chromat	ion in a range th ormal hydrocarbor duced aliquot was sed accordingly. The QC limits due cogram.	nat includes ns. s used e to unresolvable		
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	14.	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	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.





Page 2 of 2

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

CAT		Laboratory	Chro	nicle Analysis		Dilutior
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	SW-846 8015B modified	1	02/11/2008 10:41	Patrick N Evans	1
02202	TPH-DRO (Water) w/Si Gel	SW-846 8015B	1	02/11/2008 20:11	Diane V Do	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	02/11/2008 23:44	Matthew E Barton	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	02/09/2008 03:18	Michael A Ziegler	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/11/2008 10:41	Patrick N Evans	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	02/09/2008 03:18	Michael A Ziegler	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	02/07/2008 15:30	Jason A Heisey	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	02/09/2008 08:00	Olivia I Santiago	1



# Analysis Report

ug/l

ug/l

2

2

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Page 1 of 2

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

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 12:36 Discard: 03/20/2008

05415 Ethylbenzene

Account Number: 10880

As Received

1.

1.

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

SB8-W

				ND 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 TI gasoline constituents eluting pr start time.	PH-GRO does not rior to the C6	t include MTBE o (n-hexane) TPH-	r other GRO range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	52,000.	7,300.	ug/l	25
	Due to the nature of the sample	matrix, a redu	uced aliquot was	used		
	for analysis. The reporting lim	mits were raise	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.	uq/l	2

8.

2.

06310 Xylene (Total) The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.

100-41-4

1330-20-7

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.





Page 2 of 2

Lancaster Laboratories Sample No. WW5272377

Group No. 1076134

Account Number: 10880

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

 SB8-W-080131 Grab Water

 Facility# 307233 CETE

 2259 First St-Livermore T0600196622 SB8

 Collected:01/31/2008
 by IH

Submitted: 02/06/2008 10:10 Reported: 02/18/2008 at 12:36 Discard: 03/20/2008

SB8-W

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
01728	TPH-GRO - Waters	SW-846 8015B modifie	ed 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



# **Analysis Report**

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Page 1 of 3

#### 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 method.

#### Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD Limits	<u>RPD</u>	<u>RPD Max</u>
Batch number: 080380002A TPH-DRO (Water) w/Si Gel	Sample n N.D.	umber(s): 29.	5272376-52 ug/l	72377 91	93	60-124	1	20
Batch number: 08038A08A TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	5272377 ug/l	81	77	75-135	5	30
Batch number: 080390019A Total TPH TPH Motor Oil C16-C36	Sample n N.D. N.D.	umber(s): 40. 40.	5272376 ug/l ug/l	84	81	60-120	3	20
Batch number: 08041A54A TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	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 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	5272376 ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	99 106 105 101 104 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 N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	umber(s): 0.5 0.5 0.5 2. 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	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

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.



# **Analysis Report**

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Page 2 of 3

### Quality Control Summary

) 86 PM			Grou	p Num	ber: 10	76134		
<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	Conc	<u>RPD</u>	<u>Max</u>
Sample 118	number(s)	: 5272377 63-154	UNSPK:	P2723	55			
Sample 119	number(s)	: 5272376 63-154	UNSPK:	P2712	91			
Sample	number(s)	: 5272376	UNSPK:	P2713	90			
106	102	69-127	4	30				
113	109	68-129	3	30				
108	105	78-119	2	30				
103	103	72-125	0	30				
100	98	70-121	2	30				
114	111	83-128	2	30				
101	99	70-143	2	30				
114	114	83-127	0	30				
102	99	78-120	2	30				
109	107	82-129	2	30				
113	110	82-130	2	30				
Sample	number(s)	: 5272377	UNSPK:	P2731	79			
99	97	69-127	2	30				
108	107	68-129	1	30				
106	105	78-119	1	30				
100	99	72-125	1	30				
96	98	70-121	2	30				
104	105	83-128	1	30				
97	96	70-143	1	30				
105	104	83-127	1	30				
87	85	78-120	2	30				
103	104	82-129	1	30				
104	103	82-130	1	30				
	0 36 PM 3REC Sample 118 Sample 119 Sample 106 113 108 103 100 114 101 114 101 114 102 109 113 Sample 99 108 106 100 99 108 106 100 99 108 106 109 113 Sample 99 108 106 100 113 Sample 99 108 106 100 113 109 113 Sample 119 119 119 119 119 119 119 11	36 PM         3rec       3rec         Sample       number(s):         118	36 PM         BREC       %REC       Limits         Sample       number(s):       5272377         118       63-154         Sample       number(s):       5272376         119       63-154         Sample       number(s):       5272376         119       63-154         Sample       number(s):       5272376         119       63-154         Sample       number(s):       5272376         106       102       69-127         113       109       68-129         108       105       78-119         103       103       72-125         100       98       70-121         114       111       83-128         101       99       78-120         103       107       82-129         113       110       82-130         Sample       number(s):       5272377         99       97       69-127         104       105       78-119         105       107       82-129         104       105       78-119         100       99       72-125         96	Group           36 PM         SREC         \$REC         Limits         RPD           Sample         number(s):         5272377         UNSPK:           118         63-154         UNSPK:           Sample         number(s):         5272376         UNSPK:           119         63-154         UNSPK:           Sample         number(s):         5272376         UNSPK:           106         102         69-127         4           113         109         68-129         3           108         105         78-119         2           103         72-125         0         10           100         98         70-121         2           114         111         83-128         2           101         99         78-120         2           101         99         78-120         2           102         99         78-120         2           103         110         82-130         2           Sample         number(s):         5272377         UNSPK:           103         107         82-129         2           104         114         83-128	Group Num         36 PM       SREC       SREC       Limits       RPD       MAX         Sample       number(s):       5272377       UNSPK:       P27233         Sample       number(s):       5272376       UNSPK:       P27133         106       102       69-127       4       30         113       109       68-129       3       30         106       102       69-127       2       30         103       103       72-125       0       30         104       111       83-128       2       30         101       99       70-143       2       30         102       99       78-120       2       30         103       107       82-130       2       30         104       105       83-128       1       30         103       107       68-129       1       30         104       105<	Group Number:         10           36 PM         SREC         SREC         Limits         RPD         MAX         Conc           Sample         number(s):         5272377         UNSPK:         P272355           118         Conc         Sample         number(s):         5272376         UNSPK:         P271291           Sample         number(s):         5272376         UNSPK:         P271390           106         102         69-127         4         30           113         109         68-129         3         30           106         102         69-127         4         30           113         109         68-129         3         30           108         105         78-119         2         30           103         103         72-125         0         30           104         111         83-128         2         30           114         114         83-128         2         30           101         99         76-121         2         30           102         97         69-127         2         30           103         107         68-129         <	Serve         Bare         Serve         Limite         RPD         MAX         Conc           Sample         number(s):         5272377         UNSPK:         P272355           Sample         number(s):         5272376         UNSPK:         P271291           Sample         number(s):         5272376         UNSPK:         P271390           Sample         number(s):         5272376         UNSPK:         P271390           Sample         number(s):         5272376         UNSPK:         P271390           Iof         102         69-127         4         30           Ioa         102         69-127         4         30           Ioa         105         78-119         2         30           Ioa         105         78-119         2         30           Ioa         103         72-125         0         30           Ioa         103         72-125         0         30           Ioa         99         70-143         2         30           Ioa         101         83-120         2         30           Ioa         107         82-129         2         30           Ioa	Sample         Group Number:         1076134           SREC         SREC         Limits         RP         MAx         Conc         Conc         RPD           Sample         Ster         Ster         Stres         Stres         Conc         RPD           Sample         number(s):         527237         UNSPK:         P272355         Stress         Stress

#### 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 Nam	e: 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.





Page 3 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 02/18/08 at 12:36 PM Group Number: 1076134

### Surrogate Quality Control

LCS	88	5 -	-	
LCSD	84			
MS	80			
Limits:	63-135			
Analveie	Name, TPH Fuels by GC (Wat	ere		
Ratch num	hame. Iffi fuels by GC (Wat her: 080390019A			
Daten nam	Chlorobenzene	Orthoterphenyl		
5272376	192*	80		
Blank	81	92		
LCS	91	102		
LCSD	88	96		
Limits:	28-152	52-131		
Analysis 1	Name: TPH-GRO - Waters			
Batch num	ber: 08041A54A			
	Trifluorotoluene-F			
5272376	132			· · · · · · · · · · · · · · · · · · ·
Blank	77			
LCS	86			
LCSD	87			
MS	84			
Limits:	63-135			
Analysis	Name: BTEX+5 Oxygenates+ED	C+EDB		
Batch num	ber: D080394AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5272376	91	100	98	108
Blank	88	93	93	90
LCS	93	102	97	99
MS	91	97	94	97
MSD	91	97	93	95
Limits:	80-116	77-113	80-113	78-113
Analysis 1	Name: BTEX+5 Oxygenates+ED	OC+EDB		
Batch num	ber: D080423AB			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5272377	87	84	91	103
Blank	90	90	92	98
LCS	88	90	91	100
MS	87	86	89	98
MSD	87	85	86	96
Limits:	80-116	77-113	80-113	78-113

\*- Outside of specification

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

## Chevron California Region Analysis Request/Chain of Custody

Where quality is a	Labor science.	atories	2					A	cct. #	: <u>Т</u> С	88	30	_ Sa	F ample	or L e #:	ancas SQ	ter La 7 2 3	borat	ories	use o 7	only		242 <u>6761</u>	890
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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	atories	•				Ad	cct. #	: <u>10</u>	88	0	_ Si	F ample	or L e #:	ancas Sə	ter Lal 7 <u>23</u>	borat 76	ories - 77	use oi 7	nly 2	418 0761	36 34
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DISK		-			remperature	e upon Re	ceipt	1:0-	4~4		<i>.</i> .						<i>ig</i> dy	Seals		∕ Yes ∧Ne		

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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
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

## **Inorganic Qualifiers**

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

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

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

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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 Lancaster Labs Number 5268370

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,

Ausan M Goshert

Susan M. Goshert 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
 by IH

Submitted: 01/31/2008 10:10 Reported: 03/05/2008 at 17:36 Discard: 04/05/2008

was pH = 3.

Account Number: 10880

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	Units	Factor
01728	TPH-GRO - Waters	n.a.	1,000.	50.	ug/l	1
	The reported concentration of TH gasoline constituents eluting pr start time.	PH-GRO does no cior to the C6	t include MTBE or (n-hexane) TPH-G	r other GRO range		
02202	TPH-DRO (Water) w/Si Gel	n.a.	490.	290.	ug/l	1
	Due to the nature of the sample	matrix, a red	uced aliquot was	used		
	for analysis. The reporting lim	nits were rais	ed accordingly.			
07055	Lead	7439-92-1	362.	34.5	ug/l	1
02500	TPH Fuels by GC (Waters)					
02501	Total TPH	n.a.	450.	400.	uq/l	1
02508	TPH Motor Oil C16-C36	n.a.	450.	400.	ug/l	1
	that of a hydrocarbon component C8 (n-octane) through C40 (n-tet Due to the nature of the sample for analysis. The reporting lin	mix calibrati cracontane) no matrix, a red nits were rais	on in a range tha rmal hydrocarbons uced aliquot was ed accordingly.	tt includes s. used		
	The Chlorobenzene surrogate data matrix problems evident in the s	a is outside t sample chromat	he QC limits due ogram.	to unresolvable		
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	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	Ethylbenzene	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 r	not met. The	vial submitted fo	or volatile	-	
	analysis did not have a pH < 2 a	at the time of	analysis. Due t	to the		
	volatile nature of the analytes,	it is not ap	propriate for the	e laboratory		
	to adjust the pH at the time of	sample receip	t. The pH of thi	s sample		





Page 2 of 2

Lancaster Laboratories Sample No. WW5268370

Group No. 1075465

Account Number: 10880

 SB-9-W-080129
 Grab Water

 Facility#
 307233
 CETE

 2259
 First St-Livermore T0600196622
 SB-9

 Collected:01/29/2008
 13:30
 by IH

Submitted: 01/31/2008 10:10 Reported: 03/05/2008 at 17:36 Discard: 04/05/2008

LIV-9

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
	State of California Lab (	Certification No. 211	5			
	Trip blank vials were not	t received by the lab	oratory for this	s sample group.		

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

Laboratory Chronicle									
CAT			4		Analysis	8		Dilution	
No.	Analysis Name	Method		Trial#	Date and T	Cime	Analyst	Factor	
01728	TPH-GRO - Waters	SW-846 8015E	3 modified	l 1	02/01/2008	15:36	Steven A Skiles	1	
02202	TPH-DRO (Water) w/Si Gel	SW-846 8015E	3	1	02/04/2008	16:06	Diane V Do	1	
07055	Lead	SW-846 6010E	3	1	02/02/2008	11:16	Choon Y Tian	1	
02500	TPH Fuels by GC (Waters)	SW-846 8015E	8 modified	l 1	02/05/2008	01:56	Matthew E Barton	1	
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260E	3	1	02/06/2008	13:49	Ginelle L Feister	1	
01146	GC VOA Water Prep	SW-846 5030E	3	1	02/01/2008	15:36	Steven A Skiles	1	
01163	GC/MS VOA Water Prep	SW-846 5030E	3	1	02/06/2008	13:49	Ginelle L Feister	1	
01848	WW SW846 ICP Digest (tot rec)	SW-846 30054	4	1	02/01/2008	23:55	Helen L Schaeffer	1	
02376	Extraction - Fuel/TPH (Waters)	SW-846 35100		1	02/03/2008	10:45	Kelli M Knapp	1	
07003	Extraction - DRO (Waters)	SW-846 35100		1	02/03/2008	10:45	Kelli M Knapp	1	



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### Quality Control Summary

Client Name: ChevronTexaco Reported: 03/05/08 at 05:36 PM Group Number: 1075465

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 <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 080321848001 Lead	Sample n N.D.	umber(s): 6.9	5268370 ug/l	102		90-113		
Batch number: 08032A08A TPH-GRO - Waters	Sample n N.D.	umber(s): 50.	5268370 ug/l	100	100	75-135	0	30
Batch number: 080330012A TPH-DRO (Water) w/Si Gel	Sample n N.D.	umber(s): 29.	5268370 ug/l	98	96	60-124	1	20
Batch number: 080330013A Total TPH TPH Motor Oil C16-C36	Sample n N.D. N.D.	umber(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	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 2. 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	100 111 105 100 97 105 96 106 97 104		73 - 119 70 - 123 74 - 120 79 - 113 74 - 117 78 - 119 69 - 135 85 - 115 81 - 114 82 - 119		
Xylene (Total)	N.D.	0.5	ug/l	105		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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 080321848001 Lead	Sample 101	number(s) 101	: 5268370 75-125	UNSPK: 0	P26757 20	3 BKG: P267 9.4	573 13.3	35* (1)	20
Batch number: 08032A08A TPH-GRO - Waters	Sample 109	number(s)	: 5268370 63-154	UNSPK:	P26826	9			
Batch number: D080371AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol	Sample 102 116 108 102 96	number(s) 101 115 107 104 95	: 5268370 69-127 68-129 78-119 72-125 70-121	UNSPK: 0 1 0 2 1	P26776 30 30 30 30 30 30	8			

\*- Outside of specification

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



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Page 2 of 3

## Quality Control Summary

Client Name: ChevronTexaco Reported: 03/05/08 at 05:36 PM Group Number: 1075465

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	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

	11111401000140000 1		
5268370	88		 ·····
Blank	80		
LCS	84		
LCSD	87		
MS	83		
Limits:	63-135		 
Analysis I	Name: TPH-DRO (Water) w/Si	Gel	
Daten nam	Orthoterphenyl		
5268370	99		 
Blank	99		
LCS	115		
LCSD	115		
Limits:	59-131		 
Analysis 1	Name: TPH Fuels by GC (Wat	ers)	
Batch num	ber: 080330013A		
	Chlorobenzene	Orthoterphenyl	
5268370	163*	93	 
Blank	103	96	
LCS	97	100	
LCSD	99	101	
Limits:	28-152	52-131	
Analysis 1	Name: BTEX+5 Oxygenates+ED	C+EDB	
Batch num	har, 108037100		

\*- 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 Reported: 03/05/08 at 05:36 PM Group Number: 1075465

-		Surrogate Qu	ality Control	
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

- (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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Lancaster Where re califying is	Labor	atories				amon	G	rou Ad	р Сст. #	107 <u>4</u> 1074	546 88	,5 0	_ Sar	Fomple	or Lar #: _S	ncast	ter L 93	abor 70	ratorie	es us	e only	SCR#:	244	049	]
•. Where quality is a	JUCI NC.		Ø	13¢	5Ø8	-15								Ar	nalys	es F	lequ	Jest	ed						
Facility #: <u>31) - 72</u>	33	CAI	L)					Γ						Pi	reser	vati	on (	Code	es	1		Preserva H = HCI	tive Cod	es sulfate	]
Site Address: <u>2259</u> Chevron PM: <u></u>	- Firs	<u>+ \+.</u> 3	Lead C	CNLOC Consultant	<u>~e</u> ::CR1	<u>ک</u>				6			leanup	5	Å Å	4	5					$\mathbf{N} = HNO_3$ $\mathbf{S} = H_2SO_4$	B = NaO O = Othe	H	
Consultant/Office: <u>F</u>	nery	ville,	<u>(</u> )	<b>\</b>						ntainer	021 🗆		tica Gel (	K	Я							J value report Must meet lov	ing needeo vest detect	l ion limits	,
Consultant Prj. Mgr.: <u>Li PUANS</u> Consultant Phone #: <u>Slo-420-3344</u> Fax #: <u>(Slo) 420 G170</u> Sampler: <u>I. HULL</u>						70		ite	mber of Cor	<b>DE</b> 8260 🗹 8	AOD GRO	NOD DRO DE	u l	Phates LEAT	<u>, 4</u> , 1	wo or	209	:			possible for 8 8021 MTBE Cor	260 compo Ifirmation est hit by 82	unds 260		
Service Order #: Field Point Name	Matrix	Repeat Sample	_ No Top Depth	n SAR: Year Mo	nth Dav	Time Collected	New Field Pt	Grab	Composi	Total Nu	BTEX +MT	TPH 8015 N	TPH 8015 N									Run oxy	's by 8260 's on highe 's on all hi	est hit Is	
SB#9				08 0	1 29	1330		X 			X	×	*									Comments/F Send E dehare (a email email ihull@c cevans@c	Remarks DF ) csa u to : awor craws	to No da Id. ce	
Turnaround Time Rec STD. TAT 24 hour	j <b>uested</b> ( 72 hour 4 day	(TAT) (ple 4 5	ase circl 8 hour 6 day	e)		Relinquisher Belinquisher	I by:	e en	<i>[</i>			<b>.</b>	1/2 1/2	ate Alog ate	5 17 5 17	me 30 me	Re Re Re		ed by:	E	LC	XATION BETA	Date	Time Time ISIG	
Data Package Options         QC Summary       T         Type VI (Raw Data)       T         WIP (RWQCB)       Disk	⊧ (please ( ype I – Fu ]Coelt De	circle if requ III liverable no	uired) ot neede	d		Relinquished Relinquished UPS Temperature	by: by Com FedEx Upon Re	nercia ceipt	ol Car	rrier:	<u>رک</u> ا م له	BI DU	10 771 17	ate 16 <u>8</u>		me 53e	Re Re Ci	eceiv	ed by: 64 ( ed by: 01 by Sea	) his lot		Yes We	Date Date A3/A	Time Time / too	

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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
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

## **Inorganic Qualifiers**

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

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

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

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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 1117066. Samples arrived at the laboratory on Tuesday, October 28, 2008. The PO# for this group is 0015036089 and the release number is ROBB.

<u>Client Description</u> SB12-S-5-081024 Grab Soil SB11-S-5-081024 Grab Soil Lancaster Labs Number 5510336 5510337

ELECTRONIC Chevron COPY TO ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Attn: CRA EDD Attn: Charlotte Evans Attn: Ian Hull





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

Respectfully Submitted,

middele M. Turner

Michele M. Turner Director





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Lancaster Laboratories Sample No. SW5510336

Group No. 1117066

 SB12-S-5-081024 Grab Soil

 Facility# 307233 CRAW

 2259 First St-Livermore T0600196622 SB12

 Collected:10/24/2008 08:50 by IH

Submitted: 10/28/2008 09:40 Reported: 12/01/2008 at 15:02 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### LIS12

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratio mix calibratio racontane) noi	lson of the sample on in a range that cmal hydrocarbons	e pattern to : includes		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.06
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.06
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.06
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.06
02020	t-Butyl alcohol	75-65-0	N.D.	0.021	mg/kg	1.06
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.06
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.06
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.06
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.06
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.06
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.06

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	Chroi	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/06/2008 04:32	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	. 1	10/30/2008 23:18	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/06/2008 07:12	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	10/31/2008 05:07	Matthew S Woods	1.06



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Lancast	ter Laboratories Sample	No. SW5510336		Group No. 1117	066	
SB12-S Facilit 2259 F Collect	-5-081024 Grab Soil cy# 307233 CRAW irst St-Livermore T06001 ced:10/24/2008 08:50	<b>196622 SB12</b> by IH	Ac	ccount Number: 10	0880	
Submitt Reporte Discare	ced: 10/28/2008 09:40 ed: 12/01/2008 at 15:02 d: 01/01/2009		Cł 60 Sa	nevronTexaco 001 Bollinger Car an Ramon CA 94583	nyon Rd L4310 3	
LIS12						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	10/29/2008 09:44	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	10/29/2008 09:45	Larry E Bevins	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	10/29/2008 09:46	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	10/29/2008 09:45	Larry E Bevins	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/03/2008 10:40	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/03/2008 10:40	Olivia Arosemena	1





Page 1 of 2

Lancaster Laboratories Sample No. SW5510337 SB11-S-5-081024 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB11 Collected:10/24/2008 09:50 by IH

Submitted: 10/28/2008 09:40 Reported: 12/01/2008 at 15:02 Discard: 01/01/2009 Group No. 1117066

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### LIS11

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	ak area compari mix calibratic racontane) nor	son of the sample on in a range that mal hydrocarbons.	e pattern to includes		
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	Chro	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/06/2008 05:30	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	10/30/2008 23:54	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/06/2008 08:24	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	10/31/2008 05:29	Matthew S Woods	0.99





Page 2 of 2

Lancast	ter Laboratories Sample	No. S	W5510337		Group No. 11	17066	
SB11-S Facilit 2259 Fi Collect	-5-081024 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:10/24/2008 09:50	L96622 aby IH	SB11	Ac	count Number:	10880	
Submitt Reporte Discare	ted: 10/28/2008 09:40 ed: 12/01/2008 at 15:02 d: 01/01/2009			Ch 60 Sa	evronTexaco 01 Bollinger n Ramon CA 94	Canyon Rd L4310 583	
LIS11							
00374	GC/MS - Bulk Sample Prep	SW-846 5	5030A	1	10/29/2008 09:49	Larry E Bevins	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5	5030A :	2	10/29/2008 09:48	Larry E Bevins	n.a.
01150	GC - Bulk Soil Prep	SW-846 5	5030A	1	10/29/2008 09:50	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5	5030A	1	10/29/2008 09:50	Larry E Bevins	n.a.
07004	Extraction - DRO (Soils)	SW-846 3	3550B	1	11/03/2008 10:40	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3	3550B	2	11/03/2008 10:40	Olivia Arosemena	1



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Page 1 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:02 PM Group Number: 1117066

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08304A34A TPH-GRO - Soils	Sample nu N.D.	umber(s): 1.0	5510336-55 mg/kg	10337 85	83	67-119	3	30
Batch number: 083060034A TPH-DRO by 8015B w/Silica Gel	Sample nu N.D.	umber(s): 4.0	5510336-55 mg/kg	10337 101		76-117		
Batch number: 083060034B Total TPH TPH Motor Oil C16-C36	Sample nu N.D. N.D.	umber(s): 10. 10.	5510336-55 mg/kg mg/kg	10337 91		74-119		
Batch number: B083041AB 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 nu N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	<pre>umber(s): 0.0005 0.001 0.001 0.001 0.020 0.0005 0.001 0.001 0.001</pre>	5510336-55 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	10337 94 99 93 92 104 103 109 103 98 98		72-117 72-120 67-124 60-132 66-146 84-115 76-135 81-116 77-114 82-115		
Xylene (Total)	N.D.	0.001	mg/kg	98		82-117		

#### Sample Matrix Quality Control

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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 083060034A TPH-DRO by 8015B w/Silica Gel	Sample 101	number(s)	: 5510336- 30-159	551033'	7 UNSPK	: 5510336 N.D.	BKG: 5510336 N.D.	0 (1)	20
Batch number: 083060034B Total TPH TPH Motor Oil C16-C36	Sample 91	number(s)	: 5510336- 49-123	551033	7 UNSPK	: 5510336 N.D. N.D.	BKG: 5510336 N.D. N.D.	0 (1) 0 (1)	20 20
Batch number: B083041AB	Sample	number(s)	: 5510336-	551033	7 UNSPK	: P510760			
Methyl Tertiary Butyl Ether	80	85	59-119	9	30				
di-Isopropyl ether	91	93	58-113	5	30				
Ethyl t-butyl ether	83	86	60-112	7	30				
t-Amyl methyl ether	76	81	54-121	10	30				
t-Butyl alcohol	112	95	50-143	14	30				

\*- Outside of specification

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



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Page 2 of 3

## Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:02 PM Group Number: 1117066

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	Max
Benzene	97	100	66-112	6	30				
1,2-Dichloroethane	90	91	62-130	4	30				
Toluene	105	110	58-116	8	30				
1,2-Dibromoethane	83	95	65-115	17	30				
Ethylbenzene	80	82	54-116	6	30				
Xylene (Total)	76	79	52-117	7	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 N. CA soil C6-C12 Batch number: 08304A34A Trifluorotoluene-F

5510336	69		
5510337	64		
Blank	80		
LCS	85		
LCSD	79		
Limits:	61-122		
Analysis N	Jame: TPH-DRO soil C10	-C28 w/Si Gel	
Batch numb	per: 083060034A		
	Orthoterphenyl		
5510336	108		
5510337	111		
Blank	118		
DUP	121		
LCS	118		
MS	119		
Limits:	59-129		
Analysis M	Name: TPH Fuels by GC	(Soils)	
Batch numb	per: 083060034B		
	Chlorobenzene	Orthoterphenyl	
5510336	89	91	
5510337	89	91	
Blank	100	96	
DUP	91	94	
LCS	113	98	
MS	101	99	
Limits:	37-125	59-129	

\*- Outside of specification

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





Page 3 of 3

## Quality Control Summary

Client Name: ChevronTexaco

Group Number: 1117066

Reported: 12/01/08 at 03:02 PM

Surrogate Quality Control

Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B083041AB Dibromofluoromethane 1.2-Dichloroethane-d4 Toluene-d8

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5510336	87	85	84	78
5510337	86	82	85	78
Blank	86	82	83	78
LCS	88	84	87	87
MS	86	78	101	72
MSD	86	81	103	70
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 Custoe
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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.	none detected	BMQL	Below Minimum Quantitation Level
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

## **Inorganic Qualifiers**

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

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

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

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LABORATORY ANALYTICAL REPORTS FOR VAPOR





### 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 1118686. Samples arrived at the laboratory on Thursday, November 06, 2008. The PO# for this group is 0015036089 and the release number is ROBB.

Client Description CPT3-S-18.5-081104 Grab Soil CPT3-S-35.5-081104 Grab Soil CPT3-S-55.5-081104 Grab Soil CPT3-W-56-081104 Grab Water

ELECTRONIC Chevron COPY TO ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Lancaster Labs Number 5520061 5520062 5520063 5520064

Attn: CRA EDD Attn: Charlotte Evans Attn: Ian Hull





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

Respectfully Submitted,

middele M. Turner

Michele M. Turner Director





Page 1 of 2

Lancaster Laboratories Sample No. SW5520061 Group No. 1118686 CPT3-S-18.5-081104 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT3 Collected:11/04/2008 11:35 by SM

Submitted: 11/06/2008 10:00 Reported: 12/01/2008 at 15:02 Discard: 01/01/2009

Account Number: 10880

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
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibrati tracontane) no	on in a range tĥ ormal hydrocarbon	at includes s.		
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	Chroi	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/12/2008 07:08	Lisa A Reinert	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/08/2008 02:59	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/12/2008 03:30	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/09/2008 02:35	Holly Berry	0.96



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Page 2 of 2

Lancast	ter Laboratories Sample	No. S	SW5520061		Group No. 1118	686	
CPT3-S Facilit 2259 F Collect	-18.5-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T0600 ted:11/04/2008 11:35	<b>196622</b> by SN	<b>СРТЗ</b> 4	Ac	ccount Number: 1	.0880	
Submit Reporte Discare	ted: 11/06/2008 10:00 ed: 12/01/2008 at 15:02 d: 01/01/2009			Cl 60 Sa	nevronTexaco )01 Bollinger Ca an Ramon CA 9458	nyon Rd L4310	
LIV18							
00374	GC/MS - Bulk Sample Prep	SW-846	5030A	1	11/06/2008 15:29	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846	5030A	2	11/06/2008 15:33	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846	5030A	1	11/06/2008 15:36	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846	5030A	1	11/06/2008 15:35	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846	3550B	1	11/10/2008 23:45	Patricia L Foreman	1
07004	Extraction - DRO (Soils)	SW-846	3550B	2	11/10/2008 23:45	Patricia L Foreman	1





Page 1 of 2

Dilution

Factor

1

1

1

25

Lancaster Laboratories Sample No. SW5520062 Group No. 1118686 CPT3-S-35.5-081104 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT3 Account Number: 10880 Collected:11/04/2008 12:00 bv SM Submitted: 11/06/2008 10:00 ChevronTexaco Reported: 12/01/2008 at 15:02 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 LIV35 As Received As Received Method CAT Analysis Name CAS Number Result Detection Units No. Limit TPH-DRO by 8015B w/Silica Gel 02222 N.D. 4.0 mg/kg n.a. 01725 TPH-GRO - Soils n.a. N.D. 1.0 mg/kg 02516 TPH Fuels by GC (Soils) 02518 Total TPH N.D. 10 n.a. mg/kg 02552 TPH Motor Oil C16-C36 n.a. N.D. 10 mg/kg 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.

#### 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.

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		Laboratory	Chro	nıcle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/12/2008 08:08	Lisa A Reinert	1
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	11/08/2008 03:35	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	l 1	11/12/2008 04:42	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/09/2008 03:20	Holly Berry	0.96

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Lancast	ter Laboratories Sample	No. SW5520062		Group No. 1118	686	
CPT3-S Facilit 2259 F: Collect	-35.5-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/04/2008 12:00	. <b>96622 СРТЗ</b> by SM	A	ccount Number: 1	0880	
Submit Reporte Discare	ted: 11/06/2008 10:00 ed: 12/01/2008 at 15:02 d: 01/01/2009		C] 6 Sa	nevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
LIV35						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/06/2008 15:44	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/06/2008 15:45	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/06/2008 15:48	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/06/2008 15:47	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/10/2008 23:45	Patricia L Foreman	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/10/2008 23:45	Patricia L Foreman	1





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Lancas	ter Laboratories Sample No	5. SW552006	53 G:	roup No. 1118	686	C
CPT3-S Facili 2259 F Collec	-55.5-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T0600196 ted:11/04/2008 12:50 h	5 <b>622 CPT3</b> Dy SM	Acco	unt Number: 1	0880	
Submit Report Discar	ted: 11/06/2008 10:00 ed: 12/01/2008 at 15:02 d: 01/01/2009		Chev 6001 San	ronTexaco Bollinger Ca Ramon CA 9458	nyon Rd L4 3	310
LTV55						
11100						
<b>63 F</b>				As Received		D/Juckiew
No.	Analysis Name	CAS Number	As Received Result	Detection	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	7.1	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	52	4.0	mg/kg	100
02516	TPH Fuels by GC (Soils)					
02518	Total TPU	n a	ND	10	ma/ka	1
02510	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-te BTEX+5 Oxygenates+EDC+EDB	mix calibrati tracontane) no	in a range the same the same the same the same second seco	nat includes ns.		
02016	Methyl Tertiary Butyl Ether	1634-04-4	ND	0 024	ma/ka	47 44
02017	di-Isopropyl ether	108-20-3	N.D.	0.047	ma/ka	47.44
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.047	ma/ka	47.44
02019	t-Amyl methyl ether	994-05-8	N.D.	0.047	ma/ka	47.44
02020	t-Butyl alcohol	75-65-0	N.D.	0.95	mg/kg	47.44
05460	Benzene	71-43-2	N.D.	0.024	mg/kg	47.44
05461	1,2-Dichloroethane	107-06-2	N.D.	0.047	mg/kg	47.44
05466	Toluene	108-88-3	N.D.	0.047	mq/kq	47.44
05471	1,2-Dibromoethane	106-93-4	N.D.	0.047	mg/kg	47.44
05474	Ethylbenzene	100-41-4	N.D.	0.047	mg/kg	47.44
06301	Xylene (Total)	1330-20-7	N.D.	0.047	mg/kg	47.44
	The GC/MS volatile analysis was soil method due to the level of reporting limits were raised.	performed acc	cording to the h mpounds. There	igh level Eore, the		
	State of California Lab Certifi	cation No. 211	16			
	All QC is compliant unless othe Control Summary for overall QC	erwise noted. performance da	Please refer to ata and associate	the Quality ed samples.		

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/12/2008 08:28	Lisa A Reinert	1



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Lancas	ter Laboratories Sample	No. SW5520063		Group No. 1118	686	
CPT3-S Facili 2259 F Collec	-55.5-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06001 ted:11/04/2008 12:50	<b>.96622 CPT3</b> by SM		Account Number: 1	.0880	
Submit Report Discar	ted: 11/06/2008 10:00 ed: 12/01/2008 at 15:02 d: 01/01/2009			ChevronTexaco 6001 Bollinger Ca San Ramon CA 9458	nyon Rd L4310 33	
LIV55						
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/08/2008 08:06	Linda C Pape	100
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/12/2008 05:06	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/14/2008 11:54	Kerri E Koch	47.44
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/06/2008 15:57	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/06/2008 16:00	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/06/2008 16:02	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	2	11/06/2008 16:09	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	3	11/06/2008 16:12	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	4	11/06/2008 16:13	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	5	11/06/2008 16:15	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/06/2008 16:01	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/10/2008 23:45	Patricia L Foreman	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/10/2008 23:45	Patricia L Foreman	1



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Lancaster Laboratories Sample No. WW5520064

Group No. 1118686

CPT3-W-56-081104 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT3 Collected:11/04/2008 13:45 by SM

Submitted: 11/06/2008 10:00 Reported: 12/01/2008 at 15:02 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

LIV56

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	n.a.	36,000	3,200	ug/l	10
	Due to the nature of the sample	matrix, a redu	iced aliquot was ι	ısed		
	for analysis. The reporting lim	nits were raise	ed accordingly.			
01728	TPH-GRO N. CA water C6-C12	n.a.	29,000	5,000	ug/l	100
	Preservation requirements were r	not met. The v	vial submitted for	r volatile		
	analysis did not have a pH < 2 a	at the time of	analysis. Due to	o the		
	volatile nature of the analytes,	it is not app	propriate for the	laboratory		
	to adjust the pH at the time of	sample receipt	. The pH of this	s sample		
	was $pH = 7$ .					
02500	TPH Fuels by GC (Waters)					
02501	Total TPH	n.a.	4,500	400	ug/l	1
02508	TPH Motor Oil C16-C36	n.a.	4,500	400	ug/l	1
	TPH quantitation is based on pea	ak area compari	son of the sample	e pattern to		
	C8 (n-octane) through C40 (n-tet	mix calibratic	mal hydrocarbons	Includes		
	Due to the nature of the sample	matrix, a redu	iced aliquot was i	1sed		
	for analysis. The reporting lim	nits were raise	ed accordingly.			
	The surrogate data is outside th	ne QC limits du	e to unresolvable	e matrix		
	problems evident in the sample of	chromatogram.				
06058	BTEX+5 Oxygenates+EDC+EDB					
					<i>i</i> –	
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	200	1	ug/l	2
05402	1,2-Dichloroethane	107-06-2	N.D.	1	ug/l	2
05407	Toluene	108-88-3	140	1	ug/l	2
05412	1,2-Dibromoethane	106-93-4	N.D.	1	ug/l	2
05415	Ethylbenzene	100-41-4	740	130	ug/l	250
06310	Xylene (Total)	1330-20-7	1,100	130	ug/l	250
	Preservation requirements were r	not met. The w	vial submitted for	r volatile		
	analysis did not have a pH < 2 a	at the time of	analysis. Due to	o the		
	volatile nature of the analytes,	it is not app	propriate for the	Laboratory		
	to adjust the pH at the time of	sample receipt	. The pH of this	s sample		
	was pH = 6.					





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Lancaster Laboratories Sample No. WW5520064

Group No. 1118686

CPT3-W-56-081104 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT3 Collected:11/04/2008 13:45 by SM

Submitted: 11/06/2008 10:00 Reported: 12/01/2008 at 15:02 Discard: 01/01/2009 ChevronTexaco

Account Number: 10880

6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### LIV56

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
	State of California Lab Certifica	ation No. 2116				
	Trip blank vials were not receive	ed by the labo	ratory 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								
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor		
02216	TPH-DRO by 8015B w/ Silica Gel	SW-846 8015B	2	11/11/2008 20:44	Lisa A Reinert	10		
01728	TPH-GRO - Waters	SW-846 8015B mod:	ified 1	11/11/2008 03:48	Kathie J Bowman	100		
02500	TPH Fuels by GC (Waters)	SW-846 8015B mod:	ified 1	11/10/2008 22:27	Heather E Williams	1		
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/15/2008 21:02	Michael A Ziegler	250		
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/17/2008 18:42	Ginelle L Feister	2		
01146	GC VOA Water Prep	SW-846 5030B	1	11/11/2008 03:48	Kathie J Bowman	100		
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/17/2008 18:42	Ginelle L Feister	2		
01163	GC/MS VOA Water Prep	SW-846 5030B	2	11/15/2008 21:02	Michael A Ziegler	250		
07003	Extraction - DRO (Waters)	SW-846 3510C	1	11/10/2008 01:30	Olivia I Santiago	1		
07003	Extraction - DRO (Waters)	SW-846 3510C	2	11/10/2008 01:30	Olivia I Santiago	1		



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## Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:02 PM Group Number: 1118686

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 08312A34A TPH-GRO - Soils	Sample r N.D.	number(s): 1.0	5520061-55 mg/kg	520063 93	93	67-119	1	30
Batch number: 083130010A TPH-DRO by 8015B w/ Silica Gel	Sample r N.D.	umber(s): 32.	5520064 ug/l	84	85	60-124	1	20
Batch number: 083130011A Total TPH TPH Motor Oil C16-C36	Sample r N.D. N.D.	number(s): 40. 40.	5520064 ug/l ug/l	78	79	60-120	2	20
Batch number: 083150015A TPH-DRO by 8015B w/Silica Gel	Sample r N.D.	number(s): 4.0	5520061-55 mg/kg	520063 93		76-117		
Batch number: 083150016A Total TPH TPH Motor Oil C16-C36	Sample r N.D. N.D.	number(s): 10. 10.	5520061-55 mg/kg mg/kg	520063 84		74-119		
Batch number: 08315B20A TPH-GRO N. CA water C6-C12	Sample r N.D.	number(s): 50.	5520064 ug/l	118	118	75-135	0	30
Batch number: B083131AB 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) Batch number: D083204AA Ethylbenzene	Sample r N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	humber(s): 0.0005 0.001 0.001 0.001 0.0005 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	5520061-55 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	200062 88 90 88 103 104 105 101 90 94 98	87 88 86 87 100 101 102 97 89 92 95	72-117 72-120 67-124 60-132 66-146 84-115 76-135 81-116 77-114 82-115 82-117	1 3 2 1 6 4 3 5 2 3 2	30 30 30 30 30 30 30 30 30 30 30 30
Ethylbenzene Xylene (Total) Batch number: D083221AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene	N.D. N.D. Sample r N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	0.5 0.5 number(s): 0.5 0.5 0.5 2. 0.5 0.5 0.5 0.5	ug/1 ug/1 5520064 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	97 102 116 85 100 106 89 95 119 98		82-119 83-113 70-123 74-120 79-113 74-117 78-119 69-135 85-115		
Toluene 1,2-Dibromoethane	N.D. N.D.	0.5 0.5	ug/l ug/l	98 96		85-115 81-114		

\*- 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 Reported: 12/01/08 at 03:02 PM Group Number: 1118686

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: R083191AA	Sample n	umber(s):	5520063					
Methyl Tertiary Butyl Ether	N.D.	0.025	mg/kg	99	95	72-117	4	30
di-Isopropyl ether	N.D.	0.050	mg/kg	98	95	72-120	2	30
Ethyl t-butyl ether	N.D.	0.050	mg/kg	98	92	67-124	6	30
t-Amyl methyl ether	N.D.	0.050	mg/kg	99	95	60-132	4	30
t-Butyl alcohol	N.D.	1.0	mg/kg	90	87	66-146	4	30
Benzene	N.D.	0.025	mg/kg	99	95	84-115	5	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	99	96	76-135	4	30
Toluene	N.D.	0.050	mg/kg	99	96	81-116	4	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	102	96	77-114	6	30
Ethylbenzene	N.D.	0.050	mg/kg	98	94	82-115	4	30
Xylene (Total)	N.D.	0.050	mg/kg	96	94	82-117	2	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 <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 083150015A TPH-DRO by 8015B w/Silica Gel	Sample 86	number(s)	: 5520061- 30-159	-5520063	3 UNSPK	: 5520061 N.D.	BKG: 5520061 N.D.	0 (1)	20
Batch number: 083150016A Total TPH	Sample 86	number(s)	: 5520061- 49-123	-5520063	B UNSPK	: 5520061 N.D.	BKG: 5520061 N.D.	0 (1)	20
Batch number: 08315B20A TPH-GRO N. CA water C6-C12	Sample 109	number(s)	: 5520064 63-154	UNSPK:	P52007	4			
Batch number: B083131AB 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 105 110 103 143 133* 131* 131* 131* 116* 125* 128*	number(s)	: 5520061- 59-119 58-113 60-112 54-121 50-143 66-112 62-130 58-116 65-115 54-116 52-117	-5520062	2 UNSPK	: P518593			
Batch number: D083204AA Ethylbenzene Xylene (Total)	Sample 97 101	number(s) 99 102	: 5520064 82-129 82-130	UNSPK: 2 1	P52007 30 30	4			
Batch number: D083221AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether	Sample 120 90 106 109	number(s) 124 94 107 110	: 5520064 69-127 68-129 78-119 72-125	UNSPK: 3 4 2 1	P52279 30 30 30 30 30	5			

\*- 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 Reported: 12/01/08 at 03:02 PM Group Number: 1118686

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	Max
t-Butyl alcohol	92	92	70-121	0	30				
Benzene	103	107	83-128	3	30				
1,2-Dichloroethane	122	124	70-143	2	30				
Toluene	102	104	83-127	2	30				
1,2-Dibromoethane	99	103	78-120	4	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 N. CA soil C6-C12 Batch number: 08312A34A Trifluorotoluene-F

5520061	77		
5520062	77		
5520063	24*		
Blank	81		
LCS	88		
LCSD	90		
Limits:	61-122		
Analysis N	Jame: TPH-DRO water C1	D-C28 w/Si Gel	
Batch numb	per: 083130010A		
	Orthoterphenyl		
5520064	82		
Blank	91		
LCS	100		
LCSD	100		
Limits:	54-127		
Analysis N	Name: TPH Fuels by GC	(Waters)	
Batch numb	per: 083130011A		
	Chlorobenzene	Orthoterphenyl	
5520064	1589*	90	
Blank	76	76	
LCS	77	68	
LCSD	76	66	
Limits:	28-152	52-131	
Analysis N	Name: TPH-DRO soil C10	-C28 w/Si Gel	
balch num	Orthoterphenyl		

\*- 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

Group Number: 1118686

Client Name: ChevronTexaco Reported: 12/01/08 at 03:02 PM

Surrogate Quality Control

5520061 5520062 5520063 Blank DUP LCS	81 90 98 95 86 116		-	
Timita	50 120			
LIMILS:	59-129			
Analysis N Batch numb	Jame: TPH Fuels by GC (Soi per: 083150016A	ls)		
	Chlorobenzene	Orthoterphenyl		
5520061	83	80		
5520062	90	90		
5520063	96	90		
Blank	96	95		
DUP	77	83		
LCS	88	97		
MS	84	93		
Limits:	37-125	59-129		
Batch numb	Per: 08315B20A Trifluorotoluene-F			
5520064 Plank	92			
LCC	100			
LCS	109			
MC	107			
MS	108			
Limits:	63-135			
Analysis N Batch numb	Jame: BTEX+5 Oxygenates+ED	C+EDB		
Dateir namb	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5520061	93	83	81	78
5520062	91	73	82	84
Blank	91	84	81	81
LCS	89	85	83	86
LCSD	91	82	83	85
MS	91	80	84	87
Limits:	71-114	70-109	70-123	70-111
Analysis N Batch numb	Jame: 8260 Master Scan (wa	ter)		
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	88	90	88	90
LCS	86	87	88	100
MS	81	86	90	97
MSD	81	88	92	98

\*- Outside of specification

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




Page 5 of 5

## Quality Control Summary

Client N	Jame: ChevronTexaco	Group Number: 1118686								
Reported	1: 12/01/08 at 03:02	Surrogate O	uality Control							
Limits:	80-116	77-113	80-113	78-113						
Analysis M	Name: BTEX+5 Oxygenates+ED	C+EDB								
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene						
5520064	96	90	87	112						
Blank	105	99	88	101						
LCS	101	93	85	110						
MS	101	98	87	112						
MSD	103	100	86	113						
Limits:	80-116	77-113	80-113	78-113						
Analysis M Batch numb	Name: BTEX+5 Oxygenates+ED per: R083191AA	C+EDB								
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene						
5520063	86	88	90	88						
Blank	92	96	95	91						
LCS	98	101	101	99						
LCSD	96	99	99	97						
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.

			Ch	evroi	n Ca	alifor	nia I	Re	gi	on	A	n	aly	/S	is	Re	eqi	lesi	t/C	ha	nin of C	usto	dy
Where quality is a so	<b>abor</b> cience.	atories	<u>5</u> [	1 95	Ø8	- ØS	Pile	A NF2	cct. #	10	L 8.81	D	_ Sa	F Imple A	or La #: naly:	ncas 55 55 ses 1	ter La 20 20 Reque	borator	; ies us ; ; ; ; ; ; ; ; ; ; ;		MBEIIIUIO scr# Crouct	25	081 686
Facility #: <u>SO-723</u> Site Address: <u>2259</u> Chevron PM: <u>I</u> , <u>P</u> E Consultant/Office: <u>E</u> / Consultant Prj. Mgr.: <u>C</u> Consultant Phone #: <u>51</u> Sampler: <u>S. MCN/C</u> Service Order #: Field Point Name CPT3-18.5 CPT3-35.5 CPT3-55.5	Fire Solution	(A) (A) (A) (A) (A) (A) (A) (A)	Lead C (A CA 700) C 700) C 700) C 700) C 700 C 70 C 700 C 70 C 700 C 700 C 700 C 700 C 700 C 700 C 700 C 700 C 700 C 700 C 700 C 700 C 700 C 70 C C 70 C C 70 C C 70 C C C C	Fax #: $51$ Note: The second	0-4 0-4 h Day 04 04	(A 	New Field Pr Y Y	X X X Grab	Composite	Total Number of Containers			TPH 8015 MOD DRO Desilica Gel Cleanup	8260 full scan	XXX Cx/genates		0 WSIOR OWHALLXXX	odes			Preserv H = HCl N = HNO3 S = H2SO4 J value report Must meet lo possible for 8 8021 MTBE Co Confirm high Confirm all h Run ox Run ox Comments / Please s duba to Ennail itull@C	ative Cod T = Thios B = NaO O = Other ing needed west detect 260 compo- firmation est hit by 82 ts by 8260 y's on higher y's on all hit Remarks $end(E)Creace Creace Creace$	es sulfate H ion limits 260 est hit ts DF world orld.con
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3460 Rev. 10/04/01

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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
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

### **Inorganic Qualifiers**

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

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

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

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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 1118909. Samples arrived at the laboratory on Friday, November 07, 2008. The PO# for this group is 0015036089 and the release number is ROBB.

<u>Client Description</u> CPT4-S-50-081105 Grab Soil CPT4-W-54-081105 Grab Water CPT4-W-60-081105 Grab Water

ELECTRONIC Chevron COPY TO ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Lancaster Labs Number 5521227 5521228 5521229

Attn: CRA EDD Attn: Charlotte Evans Attn: Ian Hull





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

Respectfully Submitted,

middele M. Turner

Michele M. Turner Director





Page 1 of 2

Lancaster Laboratories Sample No. SW5521227

CPT4-S-50-081105 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT4 Collected:11/05/2008 11:30 by IH

Submitted: 11/07/2008 09:50 Reported: 12/01/2008 at 15:03 Discard: 01/01/2009 Group No. 1118909

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

CP450

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibrati racontane) no	on in a range tha rmal hydrocarbons	t includes		
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	Chro	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/14/2008 19:02	Lisa A Reinert	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/11/2008 19:44	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/12/2008 05:30	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/11/2008 13:17	Emiley A King	1.02



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Lancast	ter Laboratories Sample	No. S	W5521227		Group No. 11189	009	
CPT4-S Facilit 2259 F: Collect	-50-081105 Grab Soil ty# 307233 CRAW irst St-Livermore T06001 ted:11/05/2008 11:30	<b>96622</b> bv IH	CPT4	Ac	count Number: 10	880	
Submitt Reporte Discare	ted: 11/07/2008 09:50 ed: 12/01/2008 at 15:03 d: 01/01/2009	- 1		Ch 60 Sa	evronTexaco 01 Bollinger Car n Ramon CA 94583	yon Rd L4310	
CP450 00374 00374 01150 06646 07004	GC/MS - Bulk Sample Prep GC/MS - Bulk Sample Prep GC - Bulk Soil Prep GC/MS HL Bulk Sample Prep Extraction - DRO (Soils)	SW-846 5 SW-846 5 SW-846 5 SW-846 5 SW-846 5 SW-846 5	5030A 1 5030A 2 5030A 1 5030A 1 3550B 1	L 2 L L	11/10/2008 11:14 11/10/2008 11:15 11/10/2008 11:17 11/10/2008 11:16 11/10/2008 23:45	Larry E Bevins Larry E Bevins Larry E Bevins Larry E Bevins Patricia L Foreman	n.a. n.a. n.a. n.a. 1



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Lancaster Laboratories Sample No. WW5521228 CPT4-W-54-081105 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT4 Collected:11/05/2008 11:55 by IH

Submitted: 11/07/2008 09:50 Reported: 12/01/2008 at 15:03 Discard: 01/01/2009 Group No. 1118909

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### CP454

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	n.a.	400	320	ug/l	1
	Due to the nature of the sample for analysis. The reporting lim	matrix, a redu its were raise	ced aliquot was under accordingly.	lsed		
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
02500	TPH Fuels by GC (Waters)					
02501	Total TPH	n.a.	720	400	ug/l	1
02508	TPH Motor Oil C16-C36	n.a.	720	400	ug/l	1
06058	C8 (n-octane) through C40 (n-tet Due to the nature of the sample for analysis. The reporting lim BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) nor matrix, a redu its were raise	mal hydrocarbons. ced aliquot was u d accordingly.	used		
02010	Methyl Tertiary Butyl Ether	1634-04-4	N D	0 5	ug/1	1
02010	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/1	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	0.5	ug/1	1
02014	t-Amvl 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	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	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

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

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

Laboratory Chronicle



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Lancaster Laboratories Sample No. WW5521228 Group No. 1118909 CPT4-W-54-081105 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT4 Account Number: 10880 Collected:11/05/2008 11:55 by IH Submitted: 11/07/2008 09:50 ChevronTexaco Reported: 12/01/2008 at 15:03 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 CP454 CAT Analysis Dilution Method Trial# Date and Time Analysis Name Analyst No. Factor TPH-DRO by 8015B w/ Silica SW-846 8015B 1 11/10/2008 23:08 02216 Diane V Do 1 Gel 
 OI728
 TPH-GRO - Waters
 SW-846
 8015B modified
 1

 02500
 TPH Fuels by GC (Waters)
 SW-846
 8015B modified
 1

 06058
 BTEX+5 Oxygenates+EDC+EDB
 SW-846
 8260B
 1
 , \_\_, 2008 17:02 11/10/2008 22:51 11/17/2000 Kathie J Bowman 1 Heather E Williams 1 1 11/17/2008 11:56 Ginelle L Feister 1 SW-846 5030B 01146 GC VOA Water Prep 1 11/13/2008 17:02 Kathie J Bowman 1 
 1
 11/17/2008
 11:56
 Ginelle L Feister

 1
 11/10/2008
 01:30
 Olivia I Santiago

 2
 11/10/2008
 01:30
 Olivia I Santiago
 01163 GC/MS VOA Water Prep SW-846 5030B 1 Extraction - DRO (Waters) 07003 SW-846 3510C 1 07003 Extraction - DRO (Waters) SW-846 3510C 1



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Lancaster Laboratories Sample No. WW5521229 CPT4-W-60-081105 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT4 Collected:11/05/2008 12:45 by IH

Submitted: 11/07/2008 09:50 Reported: 12/01/2008 at 15:03 Discard: 01/01/2009 Group No. 1118909

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

CP460

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	n.a.	490	320	ug/l	1
	Due to the nature of the sample for analysis. The reporting lim	matrix, a redu its were raise	ced aliquot was u d accordingly.	ised		
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
02500	TPH Fuels by GC (Waters)					
02501	Total TPH	n.a.	1,400	400	ug/l	1
02508	TPH Motor Oil C16-C36	n.a.	1,400	400	ug/l	1
06058	that of a hydrocarbon component C8 (n-octane) through C40 (n-tet Due to the nature of the sample for analysis. The reporting lim BTEX+5 Oxygenates+EDC+EDB	mix calibratio racontane) nor matrix, a redu its were raise	n in a range that mal hydrocarbons. .ced aliquot was u d accordingly.	includes		
					17	_
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	ug/l	1
02011	di-lsopropyl 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	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	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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Lancaster Laboratories Sample No. WW5521229 Group No. 1118909 CPT4-W-60-081105 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT4 Account Number: 10880 Collected:11/05/2008 12:45 by IH Submitted: 11/07/2008 09:50 ChevronTexaco Reported: 12/01/2008 at 15:03 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 CP460 CAT Analysis Dilution Method Trial# Date and Time Analysis Name Analyst No. Factor TPH-DRO by 8015B w/ Silica SW-846 8015B 1 11/10/2008 23:28 02216 Diane V Do 1 Gel 
 OI728
 TPH-GRO - Waters
 SW-846
 8015B modified
 1

 02500
 TPH Fuels by GC (Waters)
 SW-846
 8015B modified
 1

 06058
 BTEX+5 Oxygenates+EDC+EDB
 SW-846
 8260B
 1
 11/10/2008 17:24 11/10/2008 23:15 11/17/2000 Kathie J Bowman 1 Heather E Williams 1 1 11/17/2008 10:21 Ginelle L Feister 1 SW-846 5030B 01146 GC VOA Water Prep 1 11/13/2008 17:24 Kathie J Bowman 1 
 1
 11/17/2008
 10:21
 Ginelle L Feister

 1
 11/10/2008
 01:30
 Olivia I Santiago

 2
 11/10/2008
 01:30
 Olivia I Santiago
 01163 GC/MS VOA Water Prep SW-846 5030B 1 Extraction - DRO (Waters) 07003 SW-846 3510C 1 07003 Extraction - DRO (Waters) SW-846 3510C 1



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Page 1 of 4

### Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:03 PM Group Number: 1118909

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

<u>Analysis Name</u>	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 083130010A TPH-DRO by 8015B w/ Silica Gel	Sample n N.D.	umber(s): 32.	5521228-55 ug/l	21229 84	85	60-124	1	20
Batch number: 083130011A Total TPH TPH Motor Oil C16-C36	Sample n N.D. N.D.	umber(s): 40. 40.	5521228-55 ug/l ug/l	21229 78	79	60-120	2	20
Batch number: 083150016A Total TPH TPH Motor Oil C16-C36	Sample n N.D. N.D.	umber(s): 10. 10.	5521227 mg/kg mg/kg	84		74-119		
Batch number: 08316A33A TPH-GRO - Soils	Sample n N.D.	umber(s): 1.0	5521227 mg/kg	93	89	67-119	4	30
Batch number: 083170029A TPH-DRO by 8015B w/Silica Gel	Sample n N.D.	umber(s): 4.0	5521227 mg/kg	96		76-117		
Batch number: 08317C20A TPH-GRO N. CA water C6-C12	Sample n N.D.	umber(s): 50.	5521228-55 ug/l	21229 108	108	75-135	0	30
Batch number: B083161AA 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 n 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 0.000 0.0005 0.001 0.001 0.001	5521227 mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	100 99 96 98 100 111 111 106 100 98	98 97 95 106 107 109 101 97 95	72-117 72-120 60-132 66-146 84-115 76-135 81-116 77-114 82-115	2 2 1 2 6 4 2 5 4 3	30 30 30 30 30 30 30 30 30 30 30
Xylene (Total) Batch number: D083221AA	N.D. Sample n	0.001 umber(s):	mg/kg 5521228-55	101 21229	97	82-117	4	30
Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	0.5 0.5 0.5 2. 0.5	ug/l ug/l ug/l ug/l ug/l ug/l	116 85 100 106 89 95		73-119 70-123 74-120 79-113 74-117 78-119		
1,2-Dichloroethane Toluene 1,2-Dibromoethane Ethylbenzene Xylene (Total)	N.D. N.D. N.D. N.D. N.D.	0.5 0.5 0.5 0.5 0.5	ug/l ug/l ug/l ug/l ug/l	119 98 96 99 104		69-135 85-115 81-114 82-119 83-113		

\*- Outside of specification

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



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Page 2 of 4

### Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:03 PM Group Number: 1118909

#### 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 <u>%REC</u>	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 083150016A Total TPH	Sample 86	number(s)	: 5521227 49-123	UNSPK:	P52006	51 BKG: P520 N.D.	0061 N.D.	0 (1)	20
Batch number: 083170029A TPH-DRO by 8015B w/Silica Gel	Sample 96	number(s)	: 5521227 30-159	UNSPK:	P51974	0 BKG: P519 5.3	9740 N.D.	200* (1)	20
Batch number: 08317C20A TPH-GRO N. CA water C6-C12	Sample 117	number(s)	: 5521228 63-154	-552122	9 UNSPK	K: P521367			
Batch number: B083161AA 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 99 101 93 84 113* 114 100 93 85 87	number(s)	$\begin{array}{c} : 5521227\\ 59-119\\ 58-113\\ 60-112\\ 54-121\\ 50-143\\ 66-112\\ 62-130\\ 58-116\\ 65-115\\ 54-116\\ 52-117\\ \end{array}$	UNSPK:	P52281	16			
Batch number: D083221AA 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 120 90 106 109 92 103 122 102 99 103 107	number(s) 124 94 107 110 92 107 124 104 103 107 109	: 5521228 69-127 68-129 78-119 72-125 70-121 83-128 70-143 83-127 78-120 82-129 82-130	-552122 3 4 2 1 0 3 2 2 4 4 2	9 UNSPR 30 30 30 30 30 30 30 30 30 30 30 30	K: P522795			

#### 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 C10-C28 w/Si Gel Batch number: 083130010A Orthoterphenyl

552122890552122989Blank91

\*- Outside of specification

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





Page 3 of 4

## Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:03 PM Group Number: 1118909

### Surrogate Quality Control

LCS	100	
LCSD	100	
Limits:	54-127	
Analysis Na	ne: TPH Fuels by GC (Wate	ers)
Batch numbe:	r: 083130011A	
	Chlorobenzene	Orthoterphenyl
	E E	()
5521220	55	
Dlank	76	72
TCC	78	
LCGD	76	66
ЦСЭД	/6	
Limits:	28-152	52-131
7		- )
Analysis Nat	ne: TPH FUELS by GC (Soll	S)
Datti Hullbe.	Chlorobongono	Orthotorphonyl
	CHITOTODEHZEHE	orthoterphenyr
5521227	71	73
Blank	96	95
DUP	77	83
LCS	88	97
MS	84	93
Limits:	37-125	59-129
Apolygia No	TOU COON CA COIL CO	C12
Datah numba	me: IPH-GRO N. CA SOII CO	-C12
Batti nullbe.	Trifluereteluere E	
	IIIIIuorocoruene-F	
5521227	87	
Blank	90	
LCS	89	
LCSD	91	
	-	
Limits:	61-122	
Analveie Na	me, TPH-DRO soil C10-C28	w/Si Cel
Batch number	$r \cdot 083170029\Delta$	
Dateir manbe.	Orthoternhenvl	
	orenocerphenyi	
5521227	104	
Blank	111	
DUP	107	
LCS	120	
MS	114	
Limits:	59-129	
Analysis Na	me: TPH-GRO N. CA water (	16-012
Batch number	r: 08317C20A	
	Trifluorotoluene-F	
<u> </u>	70	
5521228	70	
227777	ØØ	

\*- Outside of specification

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





Page 4 of 4

### Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:03 PM Group Number: 1118909

### Surrogate Quality Control

Blank	71			
LCS	102			
LCSD	97			
MS	107			
Limits:	63-135			
Analysis Na	ame: BTEX+5 Oxygenates+ED	C+EDB		
Batch numbe	er: B083161AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5521227	87	74	83	81
Blank	89	83	82	82
LCS	88	84	84	89
LCSD	89	86	84	87
MS	94	87	84	90
Limits:	71-114	70-109	70-123	70-111
Analysis Na	ame: BTEX+5 Oxygenates+ED	C+EDB		
Batch numbe	er: D083221AA			
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5521228	107	99	85	99
5521229	106	100	88	102
Blank	105	99	88	101
LCS	101	93	85	110
MS	101	98	87	112
MSD	103	100	86	113
Limits:	80-116	77-113	80-113	78-113

\*- Outside of specification

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

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Facility #: <u>30 - 723</u> Site Address: <u>22.59</u> Chevron PM: <u>JAN</u> Consultant/Office: <u>F</u> Consultant Prj. Mgr.: <u>C</u> Consultant Phone #: <u>5</u> Sampler: <u>1. HUL</u> Service Order #: <u></u> Field Point Name <u>CPT4-5-50</u>	A FIL POBB MERY CHAC SOIL Matrix SOIL	IL PST VILLE LOTTE 20-33 Repeat Sample N		LIV EP MORT Consultant: <u>CR</u> / AN S _ Fax #: <u>510 - 4</u> n SAR: Year Month Day 2008 11 05	ZO-91			Composite	Total Number of Containers		X TPH 8015 MOD GRO	TPH 8015 MOD DRO 🕺 Silica Gel Cleanup	8260 full scan	X 7 Oxygenates BY S260 3	Lead 7420 7421 C	TTPH THO BY 8015					Present H = HCl N = HNO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub> J value repo Must meet la possible for 8021 MTBE Ca Confirm high Confirm all f RunOC RunOC Comments / PLFASE E PLFASE E PLFASE F Adhare@c	ative Co T = Thing $B = Naid O = Other Herein a construction and the set of the s$	des osulfate OH ed ction limi oounds 8260 0 hest hit hits s	its
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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
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 ml

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

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

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

U.S. EPA data qualifiers:

### **Organic Qualifiers**

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

### **Inorganic Qualifiers**

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

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

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

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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 1118409. Samples arrived at the laboratory on Wednesday, November 05, 2008. The PO# for this group is 0015036089 and the release number is ROBB.

Client Description	Lancaster Labs Number
CPT5-S-51.5-081103 Grab Soil	5518571
CPT5-W-55-081103 Grab Water	5518572
CPT5-W-68-081103 Grab Water	5518573
SB12-S-15.5-081103 Grab Soil	5518574
SB12-S-25.5-081103 Grab Soil	5518575
SB12-S-30-081103 Grab Soil	5518576
SB12-S-35.5-081103 Grab Soil	5518577
SB12-S-45.5-081103 Grab Soil	5518578
SB12-S-50.5-081103 Grab Soil	5518579
SB12-S-55.5-081103 Grab Soil	5518580
SB12-S-60.5-081103 Grab Soil	5518581
SB11-S-16-081103 Grab Soil	5518582
SB11-S-26-081103 Grab Soil	5518583
SB11-S-36-081103 Grab Soil	5518584
SB11-S-45.5-081103 Grab Soil	5518585
SB11-S-50.5-081103 Grab Soil	5518586
SB11-S-56-081103 Grab Soil	5518587
SB11-S-61-081103 Grab Soil	5518588
SB10-S-16-081104 Grab Soil	5518589
SB10-S-26-081104 Grab Soil	5518590
SB10-S-36-081104 Grab Soil	5518591
SB10-S-46-081104 Grab Soil	5518592
SB10-S-56-081104 Grab Soil	5518593
SB10-S-62-081104 Grab Soil	5518594
SB12-W-50-081103 Grab Water	5518595





SB11-W-50-081103 Grab Water SB10-W-50-081104 Grab Water 5518596 5518597

ELECTRONIC COPY TO	Chevron	Attn: CRA EDD
ELECTRONIC COPY TO	CRA	Attn: Charlotte Evans
ELECTRONIC COPY TO	CRA	Attn: Ian Hull

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

Respectfully Submitted,

dirictin Spiller

Christine Dulaney Senior Specialist





Page 1 of 2

Lancaster Laboratories Sample No. SW5518571

Group No. 1118409

CPT5-S-51.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT5 Collected:11/03/2008 12:15 by SM

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:37 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

LIV51

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	includes		
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									
CAT		_			Dilution				
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor			
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/06/2008 23:07	Diane V Do	1			
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	11/06/2008 21:48	Linda C Pape	25			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	l 1	11/09/2008 13:32	Heather E Williams	1			
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/06/2008 23:36	Kelly E Brickley	0.98			





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Lancas	ter Laboratories Sample	No. SW5518571		Group No. 1118	409	
CPT5-S Facili 2259 F Collect	-51.5-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/03/2008 12:15	L <b>96622 CPT5</b> by SM	A	ccount Number: 1	0880	
Submit Reporte Discare	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:37 d: 01/01/2009		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
LIV51						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 18:00	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 18:03	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 18:08	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 18:05	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1



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Lancaster Laboratories Sample No. WW5518572

Group No. 1118409

CPT5-W-55-081103 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT5 Collected:11/03/2008 12:30 by SM

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:37 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

LIV55

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	n.a.	43,000	6,400	ug/l	20
	Due to the nature of the sample	e matrix, a red	luced aliquot was	used		
	for analysis. The reporting li	mits were rais	ed accordingly.			
01728	TPH-GRO N. CA water C6-C12	n.a.	2,500	250	ug/l	5
02500	TPH Fuels by GC (Waters)					
02501	Total TPH	n.a.	510	400	ug/l	1
02508	TPH Motor Oil C16-C36	n.a.	510	400	ug/l	1
	C8 (n-octane) through C40 (n-te Due to the nature of the sample for analysis. The reporting li The surrogate data is outside t problems evident in the sample	etracontane) no e matrix, a red mits were rais the QC limits d chromatogram.	ormal hydrocarbor luced aliquot was sed accordingly. lue to unresolvak	ns. s used ble matrix		
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	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	Ethylbenzene	100-41-4	1	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	0.5	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. WW5518572

Group No. 1118409

Account Number: 10880

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

CPT5-W-55-081103 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT5 Collected:11/03/2008 12:30 by SM

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:37 Discard: 01/01/2009

LIV55

### Laboratory Chronicle

	-		Analysis		Dilution
Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
TPH-DRO by 8015B w/ Silica Gel	SW-846 8015B	1	11/10/2008 12:48	Diane V Do	20
TPH-GRO - Waters	SW-846 8015B modified	l 1	11/10/2008 23:43	Kathie J Bowman	5
TPH Fuels by GC (Waters)	SW-846 8015B modified	l 1	11/07/2008 14:04	Heather E Williams	1
BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/12/2008 12:37	Ginelle L Feister	1
GC VOA Water Prep	SW-846 5030B	1	11/10/2008 23:43	Kathie J Bowman	5
GC/MS VOA Water Prep	SW-846 5030B	1	11/12/2008 12:37	Ginelle L Feister	1
Extraction - DRO (Waters)	SW-846 3510C	1	11/06/2008 15:30	Kelli M Barto	1
Extraction - DRO (Waters)	SW-846 3510C	2	11/06/2008 15:30	Kelli M Barto	1
	Analysis Name TPH-DRO by 8015B w/ Silica Gel TPH-GRO - Waters TPH Fuels by GC (Waters) BTEX+5 Oxygenates+EDC+EDB GC VOA Water Prep GC/MS VOA Water Prep Extraction - DRO (Waters) Extraction - DRO (Waters)	Analysis NameMethodTPH-DRO by 8015B w/ SilicaSW-846 8015BGelTPH-GRO - WatersSW-846 8015B modifiedTPH Fuels by GC (Waters)SW-846 8015B modifiedBTEX+5 Oxygenates+EDC+EDBSW-846 8260BGC VOA Water PrepSW-846 5030BGC/MS VOA Water PrepSW-846 5030BExtraction - DRO (Waters)SW-846 3510CExtraction - DRO (Waters)SW-846 3510C	Analysis NameMethodTrial#TPH-DRO by 8015B w/ SilicaSW-846 8015B1GelTPH-GRO - WatersSW-846 8015B modified1TPH Fuels by GC (Waters)SW-846 8015B modified1BTEX+5 Oxygenates+EDC+EDBSW-846 8260B1GC/MS VOA Water PrepSW-846 5030B1Extraction - DRO (Waters)SW-846 3510C1Extraction - DRO (Waters)SW-846 3510C2	Analysis Name         Method         Trial#         Date and Time           TPH-DRO by 8015B w/ Silica         SW-846 8015B         1         11/10/2008 12:48           Gel         TPH-GRO - Waters         SW-846 8015B modified         1         11/10/2008 23:43           TPH-Fuels by GC (Waters)         SW-846 8015B modified         1         11/07/2008 14:04           BTEX+5 Oxygenates+EDC+EDB         SW-846 8260B         1         11/12/2008 12:37           GC VOA Water Prep         SW-846 5030B         1         11/10/2008 23:43           GC/MS VOA Water Prep         SW-846 8260B         1         11/0/2008 12:37           Extraction - DRO (Waters)         SW-846 3510C         1         11/10/2008 12:37           Extraction - DRO (Waters)         SW-846 3510C         2         11/06/2008 15:30	AnalysisAnalysis NameMethodTrial#Date and TimeAnalystTPH-DRO by 8015B w/ SilicaSW-846 8015B111/10/2008 12:48Diane V DoGelTPH-GRO - WatersSW-846 8015B modified111/10/2008 23:43Kathie J BowmanTPH Fuels by GC (Waters)SW-846 8015B modified111/07/2008 14:04Heather E WilliamsBTEX+5 Oxygenates+EDC+EDBSW-846 8260B111/12/2008 12:37Ginelle L FeisterGC VOA Water PrepSW-846 5030B111/10/2008 23:43Kathie J BowmanGC/MS VOA Water PrepSW-846 5030B111/12/2008 12:37Ginelle L FeisterExtraction - DRO (Waters)SW-846 3510C111/06/2008 15:30Kelli M BartoExtraction - DRO (Waters)SW-846 3510C211/06/2008 15:30Kelli M Barto



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by SM

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Lancaster Laboratories Sample No. WW5518573 CPT5-W-68-081103 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT5

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:37 Discard: 01/01/2009

Collected:11/03/2008 13:50

Group No. 1118409

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

LIV68

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	n.a.	340	320	ug/l	1
	Due to the nature of the sample	matrix, a redu	ced aliquot was u	lsed		
01720	TDU CRO N CA water C6 C12	n n	70	ΕO	ug / 1	1
01/20	IFN-GRO N. CA Water Co-Ciz	11.a.	70	50	ug/1	T
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
06058	C8 (n-octane) through C40 (n-tet Due to the nature of the sample for analysis. The reporting lim BTEX+5 Oxygenates+EDC+EDB	racontane) nor matrix, a redu its were raise	mal hydrocarbons. Iced aliquot was u accordingly.	used		
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	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	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	ug/l	1

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

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

Laboratory Chronicle



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Lancaster Laboratories Sample No. WW5518573 Group No. 1118409 CPT5-W-68-081103 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 CPT5 Account Number: 10880 Collected:11/03/2008 13:50 by SM Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:37 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 TTV68 CAT Analysis Dilution Method Trial# Date and Time Analysis Name Analyst No. Factor TPH-DRO by 8015B w/ Silica SW-846 8015B 1 11/08/2008 01:13 Diane V Do 02216 1 Gel 
 Old
 Output
 SW-846
 8015B
 modified
 1

 01728
 TPH-GRO - Waters
 SW-846
 8015B
 modified
 1

 02500
 TPH Fuels by GC (Waters)
 SW-846
 8015B
 modified
 1

 06058
 BTEX+5
 Oxygenates+EDC+EDB
 SW-846
 8260B
 1
 11/11/2008 00:42 11/07/2008 14:28 Kathie J Bowman 1 Heather E Williams 1 1 11/12/2008 11:25 Ginelle L Feister 1 SW-846 5030B 01146 GC VOA Water Prep 1 11/11/2008 00:42 Kathie J Bowman 1 1 11/12/2008 11:25 Ginelle L Feister 1 11/06/2008 15:30 Kelli M Barto 2 11/06/2008 15:30 Kelli M Barto 01163 GC/MS VOA Water Prep SW-846 5030B 1 
 07003
 Extraction - DRO (Waters)
 SW-846
 3510C

 07003
 Extraction - DRO (Waters)
 SW-846
 3510C
 1 1





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Lancaster Laboratories Sample No. SW5518574 SB12-S-15.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Collected:11/03/2008 10:10 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Group No. 1118409

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1215

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) non	on in a range that rmal hydrocarbons.	includes		
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	Chroi	nicle		
CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/06/2008 23:27	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/06/2008 22:25	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 13:56	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/06/2008 23:59	Kelly E Brickley	0.96





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Lancast	ter Laboratories Sample	No. SW5518574		Group No. 11184	409	
SB12-S Facilit 2259 F: Collect	-15.5-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/03/2008 10:10	<b>96622 SB12</b> by IH	Ac	ccount Number: 10	0880	
Submitt Reporte Discare	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		Cł 60 Sa	levronTexaco )01 Bollinger Car an Ramon CA 94583	nyon Rd L4310 3	
L1215						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 18:30	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 18:33	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 18:38	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 18:35	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518575 Group No. 1118409 SB12-S-25.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Account Number: 10880 Collected:11/03/2008 10:15 by IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 L1225 As Received

CAT			As Received	Method		Dilution			
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor			
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1			
01725	TPH-GRO - Soils	n.a.	120	10	mg/kg	250			
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 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.								
07361	BTEX+5 Oxygenates+EDC+EDB								
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.023	mg/kg	45.7			
02017	di-Isopropyl ether	108-20-3	N.D.	0.046	mg/kg	45.7			
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.046	mg/kg	45.7			
02019	t-Amyl methyl ether	994-05-8	N.D.	0.046	mg/kg	45.7			
02020	t-Butyl alcohol	75-65-0	N.D.	0.91	mg/kg	45.7			
05460	Benzene	71-43-2	N.D.	0.023	mg/kg	45.7			
05461	1,2-Dichloroethane	107-06-2	N.D.	0.046	mg/kg	45.7			
05466	Toluene	108-88-3	N.D.	0.046	mg/kg	45.7			
05471	1,2-Dibromoethane	106-93-4	N.D.	0.046	mg/kg	45.7			
05474	Ethylbenzene	100-41-4	N.D.	0.046	mg/kg	45.7			
06301	Xylene (Total)	1330-20-7	N.D.	0.046	mg/kg	45.7			
	The GC/MS volatile analysis was	performed acco	rding to the high	level					
	soil method due to the level of	non-target com	pounds. Therefor	e, the					
	reporting limits were raised.								

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			<u> </u>	Analysis			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/06/2008 23:48	Diane V Do	1	





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Lancas	ter Laboratories Sample	No. SW551	8575		Group No. 1	11840	9	
SB12-S Facili 2259 F Collec	5-25.5-081103 Grab Soil ty# 307233 CRAW 'irst St-Livermore T0600 :ted:11/03/2008 10:15	<b>196622 SB12</b> by IH		Ac	count Number	: 108	80	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009			Ch 60 Sa	evronTexaco 01 Bollinger n Ramon CA 9	Cany 4583	on Rd L4310	
L1225								
01725	TPH-GRO - Soils	SW-846 8015B	modified :	1	11/07/2008 12:1	11 I	inda C Pape	250
02516	TPH Fuels by GC (Soils)	SW-846 8015B	modified :	1	11/09/2008 14:2	20 H	eather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	:	1	11/07/2008 14:4	49 K	erri E Koch	45.7
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	:	1	11/05/2008 18:4	40 E	ric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A		2	11/05/2008 18:4	43 E	ric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	:	1	11/05/2008 18:5	57 E	ric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	:	1	11/05/2008 18:5	50 E	ric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	-	1	11/06/2008 06:3	30 J	oseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B		2	11/06/2008 06:3	30 J	oseph S Feister	1





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Dilution

Factor

1

1

1

47.08

47.08

47.08

47.08

47.08

47.08

47.08

47.08

47.08

47.08

47.08

mg/kg

mg/kg

mg/kg

mg/kg

200

Lancaster Laboratories Sample No. SW5518576 Group No. 1118409 SB12-S-30-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Account Number: 10880 Collected:11/03/2008 10:18 bv IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 T-1230 As Received As Received Method CAT CAS Number Detection Units No. Analysis Name Result Limit 02222 TPH-DRO by 8015B w/Silica Gel 34 4.0 mg/kg n.a. 01725 TPH-GRO - Soils 58 8.0 mg/kg n.a. 02516 TPH Fuels by GC (Soils) 02518 Total TPH N.D. n.a. 10 mg/kg 02552 TPH Motor Oil C16-C36 n.a. N.D. 10 mg/kg 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. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. 07361 BTEX+5 Oxygenates+EDC+EDB 02016 Methyl Tertiary Butyl Ether 1634-04-4 N.D. 0.024 mg/kg 02017 di-Isopropyl ether 108-20-3 N.D. 0.047 mg/kg 02018 Ethyl t-butyl ether 637-92-3 N.D. 0.047 mg/kg 02019 t-Amyl methyl ether 994-05-8 N.D. 0.047 mg/kg 02020 t-Butyl alcohol 75-65-0 N.D. 0.94 mg/kg 05460 Benzene 71-43-2 N.D. 0.024 mg/kg 05461 1,2-Dichloroethane 107 - 06 - 2N.D. 0.047 mg/kg

05466 Toluene 108-88-3 N.D. 0.047 05471 1,2-Dibromoethane 106-93-4 N.D. 0.047 05474 Ethylbenzene 100-41-4 N.D. 0.047 06301 Xylene (Total) 1330-20-7 N.D. 0.047 The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

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. SW5518576 Group No. 1118409 SB12-S-30-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Account Number: 10880 Collected:11/03/2008 10:18 by IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 T-1230 CAT Analysis Dilution Trial# Date and Time Analysis Name Method Analyst No. Factor TPH-DRO by 8015B w/Silica SW-846 8015B 1 11/07/2008 00:08 02222 Diane V Do 1 Gel TPH-GRO - SoilsSW-846 8015B modified1TPH Fuels by GC (Soils)SW-846 8015B modified1 , ., 2008 12:49 11/09/2008 14:44 11/07/2000 01725 Linda C Pape 200 02516 Heather E Williams 1 07361 BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 11/07/2008 15:12 Kerri E Koch 47.08 
 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A

 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A
 1 11/05/2008 19:25 Eric L Vera n.a. 2 11/05/2008 19:25 Eric L Vera n.a. GC - Bulk Soil Prep SW-846 5030A 11/05/2008 19:23 Eric L Vera 01150 1 n.a. 
 OffSo
 GC - Burk Borr Prep
 SW-846 5030A

 06646
 GC/MS HL Bulk Sample Prep
 SW-846 5030A

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

 07004
 Extraction - DRO (Soils)
 SW-846 3550B
 1 11/05/2008 19:24 Eric L Vera n.a. 1 11/06/2008 06:30 Joseph S Feister 1 2 11/06/2008 06:30 Joseph S Feister 1





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Lancaster Laboratories Sample No. SW5518577 SB12-S-35.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Collected:11/03/2008 10:20 by IH A

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Group No. 1118409

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

12-35

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) nor	n in a range that mal hydrocarbons.	includes		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

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

		Laboratory	Chroi	nicle		
CAT Analysi						Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 00:28	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 00:18	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 15:08	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 00:21	Kelly E Brickley	1





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Lancast	ter Laboratories Sample	No.	SW5518577		Group No. 1	1118409	9	
SB12-S- Facilit 2259 Fi Collect	-35.5-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/03/2008 10:20	L <b>96622</b> by II	<b>SB12</b>	Ac	count Number	r: 1088	30	
Submitt Reporte Discarc	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009			Cł 60 Sa	nevronTexaco 001 Bollinger an Ramon CA 9	r Canyo 94583	on Rd L4310	
12-35								
00374	GC/MS - Bulk Sample Prep	SW-846	5030A	1	11/05/2008 19:	:27 Ei	ric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846	5030A	2	11/05/2008 19:	:29 E1	ric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846	5030A	1	11/05/2008 19:	:28 E1	ric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846	5030A	1	11/05/2008 19:	:27 Ei	ric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846	3550B	1	11/06/2008 06:	:30 Jo	oseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846	3550B	2	11/06/2008 06:	:30 Jo	oseph S Feister	1





Page 1 of 2

Lancaster Laboratories Sample No. SW5518578 SB12-S-45.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Collected:11/03/2008 10:30 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Group No. 1118409

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1245

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	1.3	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibrati cracontane) nc	on in a range the rmal hydrocarbon:	at includes s.		
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	0.0007	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	Chroi	nicle		
CAT		-		Analysis	Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 00:48	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 00:55	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 15:32	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 00:44	Kelly E Brickley	1.02


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Lancas	ter Laboratories Sample	No. SW5518578		Group No. 1118	3409	
SB12-S Facili 2259 F	-45.5-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T0600 ted:11/03/2008 10:30	196622 SB12	7	acount Number.	10880	
COTTEC	ceu.11/03/2008 10.50	by III	<i>_</i>	iccount number.	20880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 2	ChevronTexaco 001 Bollinger Ca an Ramon CA 9458	anyon Rd L4310 33	
L1245						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 19:31	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 19:33	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 19:32	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 19:32	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Dilution

Factor

1

1

1

46.21

46.21

46.21

46.21

46.21

46.21

46.21

46.21

46.21

46.21

46.21

2000

Lancaster Laboratories Sample No. SW5518579 Group No. 1118409 SB12-S-50.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Account Number: 10880 Collected:11/03/2008 10:35 bv IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 12 - 50As Received As Received Method CAT CAS Number Detection Units No. Analysis Name Result Limit 02222 TPH-DRO by 8015B w/Silica Gel 65 4.0 mg/kg n.a. 01725 TPH-GRO - Soils 1,200 80 mg/kg n.a. 02516 TPH Fuels by GC (Soils) 02518 Total TPH N.D. n.a. 10 mg/kg 02552 TPH Motor Oil C16-C36 n.a. N.D. 10 mg/kg 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. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. 07361 BTEX+5 Oxygenates+EDC+EDB 02016 Methyl Tertiary Butyl Ether 1634-04-4 N.D. 0.023 mg/kg 02017 di-Isopropyl ether 108-20-3 N.D. 0.046 mg/kg 02018 Ethyl t-butyl ether 637-92-3 N.D. 0.046 mg/kg 02019 t-Amyl methyl ether 994-05-8 N.D. 0.046 mg/kg 02020 t-Butyl alcohol 75-65-0 N.D. 0.92 mg/kg 05460 Benzene 71-43-2 N.D. 0.023 mg/kg 05461 1,2-Dichloroethane 107 - 06 - 2N.D. 0.046 mg/kg mg/kg 05466 Toluene 108-88-3 N.D. 0.046 mg/kg 05471 1,2-Dibromoethane 106-93-4 N.D. 0.046 05474 Ethylbenzene 100-41-4 N.D. 0.046 mg/kg 06301 Xylene (Total) 1330-20-7 N.D. 0.046 mg/kg

The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

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. SW5518579 Group No. 1118409 SB12-S-50.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Account Number: 10880 Collected:11/03/2008 10:35 by IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 12-50 CAT Analysis Dilution Trial# Date and Time Analysis Name Method Analyst No. Factor TPH-DRO by 8015B w/Silica SW-846 8015B 1 11/07/2008 01:08 02222 Diane V Do 1 Gel TPH-GRO - SoilsSW-846 8015B modified1TPH Fuels by GC (Soils)SW-846 8015B modified1 , ., 2008 01:33 11/09/2008 15:57 11/07/2000 01725 Linda C Pape 2000 02516 Heather E Williams 1 07361 BTEX+5 Oxygenates+EDC+EDB SW-846 8260B 1 11/07/2008 15:34 Kerri E Koch 46.21 
 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A

 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A
 1 11/05/2008 19:36 Eric L Vera n.a. 2 11/05/2008 19:43 Eric L Vera n.a. GC - Bulk Soil Prep SW-846 5030A 11/05/2008 19:42 Eric L Vera 01150 1 n.a. 06646 GC/MS HL Bulk Sample Prep 11/05/2008 19:44 Eric L Vera 
 06646
 GC/MS HL Bulk Sample Prep
 SW-846 5030A

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

 07004
 Extraction - DRO (Soils)
 SW-846 3550B
 1 n.a. 1 11/06/2008 06:30 Joseph S Feister 1 2 11/06/2008 06:30 Joseph S Feister 1





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Dilution

Factor

1

1

1

2000

Lancaster Laboratories Sample No. SW5518580 Group No. 1118409 SB12-S-55.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Account Number: 10880 Collected:11/03/2008 10:40 by IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 T-1255 As Received As Received Method CAT Analysis Name CAS Number Result Detection Units No. Limit TPH-DRO by 8015B w/Silica Gel 02222 55 4.0 mg/kg n.a. 01725 TPH-GRO - Soils n.a. 1,300 80 mg/kg 02516 TPH Fuels by GC (Soils) 02518 Total TPH N.D. n.a. 10 mg/kg 02552 TPH Motor Oil C16-C36 n.a. N.D. 10 mg/kg 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. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

#### 07361 BTEX+5 Oxygenates+EDC+EDB

02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.024	mg/kg	48.64
02017	di-Isopropyl ether	108-20-3	N.D.	0.049	mg/kg	48.64
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.049	mg/kg	48.64
02019	t-Amyl methyl ether	994-05-8	N.D.	0.049	mg/kg	48.64
02020	t-Butyl alcohol	75-65-0	N.D.	0.97	mg/kg	48.64
05460	Benzene	71-43-2	1.1	0.024	mg/kg	48.64
05461	1,2-Dichloroethane	107-06-2	N.D.	0.049	mg/kg	48.64
05466	Toluene	108-88-3	0.15	0.049	mg/kg	48.64
05471	1,2-Dibromoethane	106-93-4	N.D.	0.049	mg/kg	48.64
05474	Ethylbenzene	100-41-4	2.0	0.049	mg/kg	48.64
06301	Xylene (Total)	1330-20-7	3.7	0.049	mg/kg	48.64

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 01:28	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	11/07/2008 02:10	Linda C Pape	2000





Lancas	ter Laboratories Sample	No. SW5518580		Group No. 1118	3409	
SB12-S Facili 2259 F Collec	5-55.5-081103 Grab Soil ty# 307233 CRAW 'irst St-Livermore T06001 :ted:11/03/2008 10:40	1 <b>96622 SB12</b> by IH	А	ccount Number: 1	.0880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	anyon Rd L4310 33	
L1255						
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 16:45	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 16:19	Kerri E Koch	48.64
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 19:46	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 19:47	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 19:46	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 19:48	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518581 SB12-S-60.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Collected:11/03/2008 11:10 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Group No. 1118409

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1260

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) nor	on in a range that rmal hydrocarbons.	includes		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	0.95
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	0.95
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	0.95
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	0.95
02020	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
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	0.95
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	0.95
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	0.95
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.95
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.95

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 01:49	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 02:48	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 17:09	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 04:56	Emily R Styer	0.95



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Lancas	ter Laboratories Sample	No. SW5518581		Group No. 1118	3409	
SB12-S Facili 2259 F Collec	-60.5-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T0600 ted:11/03/2008 11:10	<b>196622 SB12</b> by IH	A	ccount Number: 1	L0880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	chevronTexaco 001 Bollinger Ca an Ramon CA 9458	anyon Rd L4310 33	
L1260						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 19:50	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 19:52	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 19:51	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 19:53	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





Page 1 of 2

Lancaster Laboratories Sample No. SW5518582

Group No. 1118409

 SB11-S-16-081103 Grab Soil

 Facility# 307233 CRAW

 2259 First St-Livermore T0600196622 SB11

 Collected:11/03/2008 13:25 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

An Bonoired

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1116

				NB RECEIVED		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	ak area compar mix calibrati tracontane) no:	ison of the sampl on in a range tha rmal hydrocarbons	e pattern to it includes 5.		
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

		Laboratory	Chroi	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 02:09	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/06/2008 19:18	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 17:33	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 01:28	Kelly E Brickley	1



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Lancas	ter Laboratories Sample	No. SW5518582		Group No. 1118	409	
SB11-S Facili 2259 F Collec	-16-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/03/2008 13:25	1 <b>96622 SB11</b> by IH	A	ccount Number: 1	.0880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
L1116						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:24	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 20:25	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 20:21	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	2	11/05/2008 20:22	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	3	11/05/2008 20:22	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	4	11/05/2008 20:23	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	5	11/05/2008 20:23	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:24	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518583

Group No. 1118409

 SB11-S-26-081103 Grab Soil

 Facility# 307233 CRAW

 2259 First St-Livermore T0600196622 SB11

 Collected:11/03/2008 13:30 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1126

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	k area compari mix calibratic racontane) nor	son of the sample on in a range that mal hydrocarbons.	pattern to includes		
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
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.97
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.97

State of California Lab Certification No. 2116

		Laboratory	Chro	nicle		
CAT				Analysis		
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 02:29	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	11/07/2008 04:41	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	l 1	11/09/2008 17:57	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 01:51	Kelly E Brickley	0.97





Lancas	ter Laboratories Sample	No. SW5518583		Group No. 1118	3409	
SB11-S Facili 2259 F	-26-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T0600	196622 SB11		accurt Number 1	0000	
COTTEC	Led:11/03/2008 13:30	DY IH	P	CCOUITE MUNDEI:	_0880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	ChevronTexaco 1001 Bollinger Ca Can Ramon CA 9458	anyon Rd L4310 33	
L1126						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:30	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 20:31	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 20:30	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:31	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518584

Group No. 1118409

 SB11-S-36-081103 Grab Soil

 Facility# 307233 CRAW

 2259 First St-Livermore T0600196622 SB11

 Collected:11/03/2008 13:38 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1136

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) nor	on in a range that mal hydrocarbons.	includes		
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

		Laboratory	Chroi	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 02:49	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 05:18	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 18:21	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 02:13	Kelly E Brickley	0.99





Lancast	ter Laboratories Sample	No. SW5518584		Group No. 1118	409	
SB11-S Facilit 2259 F:	-36-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T06001	.96622_SB11	_			
Collect	ted:11/03/2008 13:38	by IH	A	account Number: 1	.0880	
Submit Reporte Discare	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	ChevronTexaco 001 Bollinger Ca Can Ramon CA 9458	nyon Rd L4310 3	
L1136						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:35	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 20:34	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 20:34	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:35	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518585 Group No. 1118409 SB11-S-45.5-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB11 Collected:11/03/2008 13:50 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009

Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1145

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	59	8.0	mg/kg	200
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibrati cracontane) no	on in a range that rmal hydrocarbons	at includes 5.		
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

Laboratory Chronicle						
CAT			Analysis			Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 03:09	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	11/07/2008 13:26	Linda C Pape	200
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	l 1	11/09/2008 18:45	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/10/2008 06:58	Kathrine K Muramatsu	0.92



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Lancas	ter Laboratories Sample	No. SW5518585		Group No. 1118	3409	
SB11-S Facili 2259 F	-45.5-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T0600 ted:11/03/2008 13:50	196622 SB11	Д	.ccount Number, 1	0880	
Submit Report	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38	-	C 6	hevronTexaco 001 Bollinger Ca	anyon Rd L4310	
Discar	d: 01/01/2009		S	an Ramon CA 9458	33	
L1145						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:39	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 20:40	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 20:40	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:39	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancas	ter Laboratories Sample No	SW551858	36 G	roup No. 11184	109	
SB11-S Facili 2259 F Collec	-50.5-081103 Grab Soil ty# 307233 CRAW 'irst St-Livermore T0600196 ted:11/03/2008 13:55 k	5622 SB11	Acco	unt Number: 10	0880	
001100		<i>y</i> = = = = = = = = = = = = = = = = = = =	11000			
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		Chev 6001 San	ronTexaco Bollinger Car Ramon CA 94583	nyon Rd L4 3	310
L1150						
CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	na	25	Limit 4 0	ma/ka	1
01725	TPH-GRO - Soils	n.a.	59	4.0	ma/ka	100
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 The surrogate data is outside t	ak area compar mix calibrati tracontane) no he QC limits o	rison of the sam on in a range th ormal hydrocarbon due to unresolval	ple pattern to hat includes ns. ble matrix		
	problems evident in the sample	chromatogram.				
07361	BTEX+5 Oxygenates+EDC+EDB					
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.023	mg/kg	45.45
02017	di-Isopropyl ether	108-20-3	N.D.	0.045	mg/kg	45.45
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.045	mg/kg	45.45
02019	t-Amyl methyl ether	994-05-8	N.D.	0.045	mg/kg	45.45
02020	t-Butyl alcohol	75-65-0	N.D.	0.91	mg/kg	45.45
05460	Benzene	71-43-2	N.D.	0.023	mg/kg	45.45
05461	1,2-Dichloroethane	107-06-2	N.D.	0.045	mg/kg	45.45
05466	Toluene	108-88-3	N.D.	0.045	mg/kg	45.45
05471	1,2-Dibromoethane	106-93-4	N.D.	0.045	mg/kg	45.45
05474	Ethylbenzene	100-41-4	N.D.	0.045	mg/kg	45.45
06301	Xylene (Total)	1330-20-7	N.D.	0.045	mg/kg	45.45
	The GC/MS volatile analysis was	performed acc	cording to the h	igh level		
	soil method due to the level of	non-target co	ompounds. There:	fore, the		
	reporting limits were raised.					

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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Lancas	ter Laboratories Sample	No. SW5518586		Group No. 1118	3409	
SB11-S Facili 2259 F Collec	5-50.5-081103 Grab Soil ty# 307233 CRAW First St-Livermore T0600 ted:11/03/2008 13:55	<b>196622 SB11</b> by IH	Ad	ccount Number: 1	L0880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		Cl 60 Sa	nevronTexaco 001 Bollinger Ca an Ramon CA 9458	anyon Rd L4310 33	
L1150 <b>CAT</b>				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 03:29	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modifie	ed 1	11/07/2008 14:04	Linda C Pape	100
02516	TPH Fuels by GC (Soils)	SW-846 8015B modifie	ed 1	11/09/2008 19:09	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 14:05	Kerri E Koch	45.45
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:43	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 20:44	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 20:44	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:43	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1





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Dilution

Factor

1

1

1

46.82

46.82

46.82

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46.82

200

Lancaster Laboratories Sample No. SW5518587 Group No. 1118409 SB11-S-56-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB11 Account Number: 10880 Collected:11/03/2008 14:00 bv IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 T-1156 As Received As Received Method CAT CAS Number Detection Units No. Analysis Name Result Limit 02222 TPH-DRO by 8015B w/Silica Gel 45 4.0 mg/kg n.a. 01725 TPH-GRO - Soils 98 8.0 mg/kg n.a. 02516 TPH Fuels by GC (Soils) 02518 Total TPH N.D. n.a. 10 mg/kg 02552 TPH Motor Oil C16-C36 n.a. N.D. 10 mg/kg 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. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. 07361 BTEX+5 Oxygenates+EDC+EDB 02016 Methyl Tertiary Butyl Ether 1634-04-4 N.D. 0.023 mg/kg 02017 di-Isopropyl ether 108-20-3 N.D. 0.047 mg/kg 02018 Ethyl t-butyl ether 637-92-3 N.D. 0.047 mg/kg 02019 t-Amyl methyl ether 994-05-8 N.D. 0.047 mg/kg 02020 t-Butyl alcohol 75-65-0 N.D. 0.94 mg/kg 05460 Benzene 71-43-2 N.D. 0.023 mg/kg 05461 1,2-Dichloroethane 107 - 06 - 2N.D. 0.047 mg/kg mg/kg 05466 Toluene 108-88-3 N.D. 0.047 mg/kg 05471 1,2-Dibromoethane 106-93-4 N.D. 0.047 05474 Ethylbenzene 100-41-4 N.D. 0.047 mg/kg 06301 Xylene (Total) 1330-20-7 N.D. 0.047 mg/kg The GC/MS volatile analysis was performed according to the high level soil method due to the level of non-target compounds. Therefore, the reporting limits were raised.

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. SW5518587 Group No. 1118409 SB11-S-56-081103 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB11 Account Number: 10880 Collected:11/03/2008 14:00 by IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 T-1156 CAT Analysis Dilution Trial# Date and Time Analysis Name Method Analyst No. Factor TPH-DRO by 8015B w/Silica SW-846 8015B 1 11/07/2008 03:49 02222 Diane V Do 1 Gel TPH-GRO - SoilsSW-846 8015B modified1TPH Fuels by GC (Soils)SW-846 8015B modified1 11/07/2008 14:41 11/09/2008 19:33 01725 Linda C Pape 200 02516 Heather E Williams 1 07361BTEX+5Oxygenates+EDC+EDBSW-6468260B 1 11/07/2008 14:27 Kerri E Koch 46.82 
 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A

 00374
 GC/MS - Bulk Sample Prep
 SW-846 5030A
 1 11/05/2008 20:48 Eric L Vera n.a. 2 11/05/2008 20:49 Eric L Vera n.a. GC - Bulk Soil Prep SW-846 5030A 11/05/2008 20:49 Eric L Vera 01150 1 n.a. 
 OffSo
 GC - Burk Borr Prep
 SW-846 5030A

 06646
 GC/MS HL Bulk Sample Prep
 SW-846 5030A

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

 07004
 Extraction - DRO (Soils)
 SW-846 3550B
 1 11/05/2008 20:48 Eric L Vera n.a. 1 11/06/2008 06:30 Joseph S Feister 1 2 11/06/2008 06:30 Joseph S Feister 1





Page 1 of 2

Lancaster Laboratories Sample No. SW5518588 SB11-S-61-081103 Grab Soil Facility# 307233 CRAW

**2259 First St-Livermore T0600196622 SB11** Collected:11/03/2008 14:10 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

Group No. 1118409

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1161

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) nor	n in a range that mal hydrocarbons.	includes		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1
02020	t-Butyl alcohol	75-65-0	N.D.	0.020	mg/kg	1
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1

State of California Lab Certification No. 2116

Laboratory Chronicle							
CAT				Analysis		Dilution	
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor	
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 04:10	Diane V Do	1	
01725	TPH-GRO - Soils	SW-846 8015B modified	l 1	11/07/2008 07:48	Linda C Pape	25	
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	l 1	11/09/2008 19:57	Heather E Williams	1	
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/09/2008 04:28	Holly Berry	1	



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Lancast	ter Laboratories Sample	No. SW5518588		Group No. 1118	409	
SB11-S Facilit 2259 F: Collect	-61-081103 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/03/2008 14:10	<b>.96622 SB11</b> by IH	Ac	count Number: 1	0880	
Submitt Reporte Discare	ced: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		Ch 60 Sa	nevronTexaco )01 Bollinger Can an Ramon CA 9458	nyon Rd L4310 3	
L1161						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:52	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 20:53	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	5	11/07/2008 08:36	Chad Wettig	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	6	11/07/2008 08:39	Chad Wettig	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 20:52	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:53	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518589 SB10-S-16-081104 Grab Soil Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB10

Collected:11/04/2008 09:15 by IH Submitted: 11/05/2008 10:10

Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Group No. 1118409

Account Number: 10880

An Bonoired

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1016

				NB RECEIVED		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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
0.50.64	TPH quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet	nk area compari mix calibratic racontane) nom	ison of the sample on in a range that rmal hydrocarbons	e pattern to : 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	75-65-0	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

		Laboratory	Chroi	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 04:30	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 08:26	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 20:21	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 02:59	Kelly E Brickley	1





Lancast	ter Laboratories Sample	No. SW5518589		Group No. 1118	409	
SB10-S Facilit 2259 F Collect	-16-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/04/2008 09:15	.96622 SB10 by IH	A	ccount Number: 1	.0880	
Submit Reporte Discare	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 S	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
L1016						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:57	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 20:57	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 20:56	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 20:55	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518590

Group No. 1118409

 SB10-S-26-081104
 Grab Soil

 Facility#
 307233
 CRAW

 2259
 First St-Livermore T0600196622
 SB10

 Collected:11/04/2008
 09:20
 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1026

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) noi	on in a range that rmal hydrocarbons.	includes		
02016	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.0005	mg/kg	1.06
02017	di-Isopropyl ether	108-20-3	N.D.	0.001	mg/kg	1.06
02018	Ethyl t-butyl ether	637-92-3	N.D.	0.001	mg/kg	1.06
02019	t-Amyl methyl ether	994-05-8	N.D.	0.001	mg/kg	1.06
02020	t-Butyl alcohol	75-65-0	N.D.	0.021	mg/kg	1.06
05460	Benzene	71-43-2	N.D.	0.0005	mg/kg	1.06
05461	1,2-Dichloroethane	107-06-2	N.D.	0.001	mg/kg	1.06
05466	Toluene	108-88-3	N.D.	0.001	mg/kg	1.06
05471	1,2-Dibromoethane	106-93-4	N.D.	0.001	mg/kg	1.06
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	1.06
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	1.06

State of California Lab Certification No. 2116

		Laboratory	Chroi	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 04:50	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 09:03	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/09/2008 20:45	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 14:44	Emiley A King	1.06



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Lancast	ter Laboratories Sample	No. SW5518590		Group No. 1118	409	
SB10-S Facilit 2259 F: Collect	-26-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06001 ted:11/04/2008 09:20	L <b>96622 SB10</b> by IH	A	.ccount Number: 1	.0880	
Submit Reporte Discare	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
L1026						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:00	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 21:00	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 21:01	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:01	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518591

Group No. 1118409

 SB10-S-36-081104
 Grab Soil

 Facility#
 307233
 CRAW

 2259
 First St-Livermore T0600196622
 SB10

 Collected:11/04/2008
 09:30
 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1036

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	k area compari mix calibratic racontane) nor	son of the sample n in a range that mal hydrocarbons.	includes		
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

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 05:10	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	. 1	11/07/2008 09:41	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	. 1	11/09/2008 21:09	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/07/2008 19:13	Emiley A King	0.92



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Lancas	ter Laboratories Sample	No. SW5518591		Group No. 1118	3409	
SB10-S Facili 2259 F	-36-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06003	L96622 SB10				
Collec	ted:11/04/2008 09:30	by IH	A	account Number: 1	_0880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	ChevronTexaco 001 Bollinger Ca Can Ramon CA 9458	anyon Rd L4310 33	
L1036						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:07	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 21:06	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 21:08	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:07	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 06:30	Joseph S Feister	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/06/2008 06:30	Joseph S Feister	1





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Lancaster Laboratories Sample No. SW5518592

Group No. 1118409

 SB10-S-46-081104
 Grab Soil

 Facility#
 307233
 CRAW

 2259
 First St-Livermore T0600196622
 SB10

 Collected:11/04/2008
 09:40
 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

An Bonoired

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1046

				NB RECEIVED		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	4.2	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 BTEX+5 Oxygenates+EDC+EDB	ak area compar mix calibrati tracontane) nc	ison of the samp on in a range th ormal hydrocarbon	le pattern to at includes s.		
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

		Laboratory	Chroi	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/07/2008 23:52	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/06/2008 23:39	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/12/2008 02:18	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/09/2008 01:06	Holly Berry	1.04



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Lancas	ter Laboratories Sample	No. SW5518592		Group No. 1118	3409	
SB10-S Facili 2259 F Collec	-46-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/04/2008 09:40	<b>196622 SB10</b> by IH	A	ccount Number: 1	.0880	
Submit Report Discar	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	chevronTexaco 001 Bollinger Ca an Ramon CA 9458	anyon Rd L4310 33	
L1046						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:26	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 21:27	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 21:28	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:27	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 11:30	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/10/2008 23:45	Patricia L Foreman	1





Page 1 of 2

Lancaster Laboratories Sample No. SW5518593

Group No. 1118409

 SB10-S-56-081104
 Grab Soil

 Facility#
 307233
 CRAW

 2259
 First St-Livermore T0600196622
 SB10

 Collected:11/04/2008
 09:50
 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1056

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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	The quantitation is based on pea that of a hydrocarbon component C8 (n-octane) through C40 (n-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) nor	son of the sample on in a range that mal hydrocarbons.	includes		
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
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.97
06301	Xylene (Total)	1330-20-7	N.D.	0.001	mg/kg	0.97

State of California Lab Certification No. 2116

		Laboratory	Chroi	nicle		
CAT	CAT Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/08/2008 00:12	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 00:16	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/12/2008 02:42	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/09/2008 01:28	Holly Berry	0.97





Lancas	ter Laboratories Sample	No. SW5518593		Group No. 1118	409	
SB10-S Facili 2259 F: Collect	-56-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/04/2008 09:50	<b>.96622 SB10</b> by IH	A	ccount Number: 1	0880	
Submit Reporte Discare	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
L1056						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:32	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 21:33	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 21:32	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:34	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 11:30	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/10/2008 23:45	Patricia L Foreman	1





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Lancaster Laboratories Sample No. SW5518594

Group No. 1118409

 SB10-S-62-081104
 Grab Soil

 Facility#
 307233
 CRAW

 2259
 First St-Livermore T0600196622
 SB10

 Collected:11/04/2008
 10:10
 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

An Bonoired

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

L1062

				AS RECEIVED		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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 Ovvcenates+EDC+EDB	ak area compar mix calibrati tracontane) no	ison of the samp on in a range th rmal hydrocarbon	le pattern to at includes s.		
07501	BIERTS ONYGENALESTEDCTEDB					
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

		Laboratory	Chroi	nicle		
CAT	'AT Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	11/08/2008 00:32	Diane V Do	1
01725	TPH-GRO - Soils	SW-846 8015B modified	1	11/07/2008 00:52	Linda C Pape	25
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	11/12/2008 03:06	Heather E Williams	1
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/09/2008 01:51	Holly Berry	1.01





Lancast	ter Laboratories Sample	No. SW5518594		Group No. 1118	409	
SB10-S Facilit 2259 F: Collect	-62-081104 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:11/04/2008 10:10	<b>.96622 SB10</b> by IH	A	ccount Number: 1	0880	
Submit Reporte Discare	ted: 11/05/2008 10:10 ed: 12/01/2008 at 15:38 d: 01/01/2009		C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
L1062						
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:36	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846 5030A	2	11/05/2008 21:38	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846 5030A	1	11/05/2008 21:38	Eric L Vera	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5030A	1	11/05/2008 21:37	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846 3550B	1	11/06/2008 11:30	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846 3550B	2	11/10/2008 23:45	Patricia L Foreman	1



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Lancaster Laboratories Sample No. WW5518595 SB12-W-50-081103 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB12 Collected:11/03/2008 11:00 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

Group No. 1118409

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

S1250

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	n.a.	4,000	320	ug/l	1
	Due to the nature of the sample	matrix, a redu	ced aliquot was u	ised		
	for analysis. The reporting lim	its were raise	d accordingly.			
01728	TPH-GRO N. CA water C6-C12	n.a.	5,500	250	ug/l	5
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
06058	Due to the nature of the sample for analysis. The reporting lim The surrogate data is outside th problems evident in the sample c BTEX+5 Oxygenates+EDC+EDB	matrix, a redu its were raise e QC limits du hromatogram.	ced aliquot was u d accordingly. e to unresolvable	used e matrix		
02010	Methyl Tertiary Butyl Ether	1634-04-4	ND	0.5	ug/1	1
02010	di-Isopropyl ether	108-20-3	N.D.	0.5	ug/1	1
02011	Ethyl t-hutyl ether	637-92-3	N D	0.5	ug/1	1
02013	t-Amyl methyl ether	994-05-8	N.D.	0.5	ug/1	1
02015	t-Butyl alcohol	75-65-0	N.D.	2	ug/1	- 1
05401	Benzene	71-43-2	190	0.5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	ug/l	1
05407	Toluene	108-88-3	15	0.5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	uq/l	1
05415	Ethylbenzene	100-41-4	100	0.5	ug/l	1
06310	Xylene (Total)	1330-20-7	220	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.





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Lancaster Laboratories Sample No. WW5518595

Group No. 1118409

Account Number: 10880

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

ChevronTexaco

 SB12-W-50-081103
 Grab
 Water

 Facility#
 307233
 CRAW

 2259
 First
 St-Livermore
 T0600196622
 SB12

 Collected:11/03/2008
 11:00
 by
 IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009

S1250

#### Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	SW-846 8015B	1	11/08/2008 01:33	Diane V Do	1
01728	TPH-GRO - Waters	SW-846 8015B modifie	d 1	11/11/2008 01:12	Kathie J Bowman	5
02500	TPH Fuels by GC (Waters)	SW-846 8015B modifie	d 1	11/07/2008 14:52	Heather E Williams	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/12/2008 13:25	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/11/2008 01:12	Kathie J Bowman	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/12/2008 13:25	Ginelle L Feister	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	11/06/2008 15:30	Kelli M Barto	1
07003	Extraction - DRO (Waters)	SW-846 3510C	2	11/06/2008 15:30	Kelli M Barto	1



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Dilution

Factor

5

5

1

1

1

1

1

1

1

1

1

1

1

1

1

Lancaster Laboratories Sample No. WW5518596 Group No. 1118409 SB11-W-50-081103 Grab Water Facility# 307233 CRAW 2259 First St-Livermore T0600196622 SB11 Account Number: 10880 Collected:11/03/2008 14:20 bv IH Submitted: 11/05/2008 10:10 ChevronTexaco Reported: 12/01/2008 at 15:38 6001 Bollinger Canyon Rd L4310 Discard: 01/01/2009 San Ramon CA 94583 S1150 As Received As Received Method CAT CAS Number Detection Units No. Analysis Name Result Limit 02216 TPH-DRO by 8015B w/ Silica Gel 20,000 1,600 ug/l n.a. Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly. 01728 TPH-GRO N. CA water C6-C12 n.a. 9.000 250 ug/l 02500 TPH Fuels by GC (Waters) 02501 Total TPH N.D. 400 n.a. ug/l 02508 TPH Motor Oil C16-C36 n.a. N.D. 400 ug/l 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 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 02011 di-Isopropyl ether 108-20-3 N.D. 0.5 ug/l 02013 Ethyl t-butyl ether 637-92-3 N.D. 0.5 ug/l 02014 t-Amyl methyl ether 994-05-8 N.D. 0.5 ug/l 02015 t-Butyl alcohol 75-65-0 N.D. 2 ug/l 05401 Benzene 71-43-2 N.D. 0.5 ug/l 05402 1,2-Dichloroethane 107-06-2 N.D. 0.5 ug/l 05407 Toluene 108-88-3 3 0.5 ug/l 106-93-4 0.5 05412 1,2-Dibromoethane N.D. ug/l 100-41-4 0.5 05415 Ethylbenzene 17 ug/l 06310 Xylene (Total) 1330-20-7 150 0.5 ug/l 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.

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.
 WW5518596
 Group No.
 1118409

 SB11-W-50-081103 Grab Water
 Facility# 307233 CRAW
 2259 First St-Livermore T0600196622 SB11
 Account Number: 10880

 Collected:11/03/2008 14:20
 by IH
 Account Number: 10880

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009

S1150

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor

ChevronTexaco

San Ramon CA 94583

6001 Bollinger Canyon Rd L4310

		Laboratory	Chro	nicle		
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	SW-846 8015B	1	11/10/2008 13:08	Diane V Do	5
01728	TPH-GRO - Waters	SW-846 8015B modified	1 1	11/11/2008 01:05	Martha L Seidel	5
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1 1	11/07/2008 15:16	Heather E Williams	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/13/2008 14:53	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/11/2008 01:05	Martha L Seidel	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/13/2008 14:53	Ginelle L Feister	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	11/06/2008 15:30	Kelli M Barto	1
07003	Extraction - DRO (Waters)	SW-846 3510C	2	11/06/2008 15:30	Kelli M Barto	1



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Lancaster Laboratories Sample No. WW5518597

Group No. 1118409

 SB10-W-50-081104
 Grab Water

 Facility#
 307233
 CRAW

 2259
 First St-Livermore T0600196622
 SB10

 Collected:11/04/2008
 10:40
 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

S1050

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	n.a.	N.D.	320	ug/l	1
	Due to the nature of the sample	matrix, a red	uced aliquot was	used		
	for analysis. The reporting lim	nits were rais	ed accordingly.			
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	ug/l	1
	Preservation requirements were r	not met. The <sup>.</sup>	vial submitted for	or volatile		
	analysis did not have a pH < 2 a	at the time of	analysis. Due t	to the		
	volatile nature of the analytes,	it is not app	propriate for the	e laboratory		
	to adjust the pH at the time of	sample receip	t. The pH of the	is sample		
	was $pH = 4$ .					
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
	that of a hydrocarbon component C8 (n-octane) through C40 (n-tet Due to the nature of the sample for analysis. The reporting lim	mix calibratio racontane) no: matrix, a red nits were raise	on in a range th rmal hydrocarbon; uced aliquot was ed accordingly.	at includes 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	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	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 r	not met. The	vial submitted for	or volatile		
	analysis did not have a pH < 2 a	at the time of	analysis. Due t	to the		
	volatile nature of the analytes,	it is not ap	propriate for the	e laboratory		
	to adjust the pH at the time of	sample receip	t. The pH of the	is 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. WW5518597

Group No. 1118409

 SB10-W-50-081104
 Grab Water

 Facility#
 307233
 CRAW

 2259
 First St-Livermore T0600196622
 SB10

 Collected:11/04/2008
 10:40
 by IH

Submitted: 11/05/2008 10:10 Reported: 12/01/2008 at 15:38 Discard: 01/01/2009 Account Number: 10880 ChevronTexaco

6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

#### S1050

					As Received		
CAT				As Received	Method		Dilution
No.	Analysis	Name	CAS Number	Result	Detection Limit	Units	Factor

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

#### Laboratory Chronicle

		Haboracory	CIILOI			
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02216	TPH-DRO by 8015B w/ Silica Gel	SW-846 8015B	1	11/08/2008 02:13	Diane V Do	1
01728	TPH-GRO - Waters	SW-846 8015B modified	1	11/11/2008 00:06	Martha L Seidel	1
02500	TPH Fuels by GC (Waters)	SW-846 8015B modified	1	11/07/2008 15:41	Heather E Williams	1
06058	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/12/2008 15:00	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/11/2008 00:06	Martha L Seidel	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/12/2008 15:00	Ginelle L Feister	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	11/06/2008 15:30	Kelli M Barto	1
07003	Extraction - DRO (Waters)	SW-846 3510C	2	11/06/2008 15:30	Kelli M Barto	1



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## Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:38 PM Group Number: 1118409

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 <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	RPD	<u>RPD Max</u>
Batch number: 083100037A TPH-DRO by 8015B w/Silica Gel	Sample r N.D.	number(s): 4.0	5518571,55 mg/kg	18574-55 96	518591	76-117		
Batch number: 083100037B Total TPH TPH Motor Oil C16-C36	Sample r N.D. N.D.	number(s): 10. 10.	5518571,55 mg/kg mg/kg	18574-55 91	518591	74-119		
Batch number: 08310A34B TPH-GRO - Soils	Sample r N.D.	number(s): 1.0	5518592-55 mg/kg	18594 84	90	67-119	6	30
Batch number: 083110001A TPH-DRO by 8015B w/Silica Gel	Sample r N.D.	number(s): 4.0	5518592-55 mg/kg	18594 88	87	76-117	2	20
Batch number: 083110006A TPH-DRO by 8015B w/ Silica Gel	Sample r N.D.	number(s): 32.	5518572-55 ug/l	18573,55 86	518595-5518 95	597 60-124	10	20
Batch number: 083110007A Total TPH TPH Motor Oil C16-C36	Sample r N.D. N.D.	umber(s): 40. 40.	5518572-55 ug/l ug/l	18573,55 83	518595-5518 93	597 60-120	11	20
Batch number: 08311A33A TPH-GRO - Soils	Sample r N.D.	number(s): 1.0	5518571,55 mg/kg	18574,55 83	518577-5518	584,5518588-5 67-119	518591	
Batch number: 08311A33B TPH-GRO - Soils	Sample r N.D.	number(s): 1.0	5518575-55 mg/kg	18576,55 83	518585-5518	587 67-119		
Batch number: 083150016A Total TPH TPH Motor Oil C16-C36	Sample r N.D. N.D.	number(s): 10. 10.	5518592-55 mg/kg mg/kg	18594 84		74-119		
Batch number: 08315A08A TPH-GRO N. CA water C6-C12	Sample r N.D.	number(s): 50.	5518572-55 ug/l	18573,55 127	518595 109	75-135	15	30
Batch number: 08315B15A TPH-GRO N. CA water C6-C12	Sample r N.D.	number(s): 50.	5518596-55 ug/l	18597 100	100	75-135	0	30
Batch number: B083112AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether	Sample r N.D. N.D. N.D. N.D. N.D.	number(s): 0.0005 0.001 0.001 0.001 0.001	5518571,55 mg/kg mg/kg mg/kg mg/kg	18574,55 85 81 80 82	518577-5518 89 87 84 86	578,5518581-5 72-117 72-120 67-124 60-132	518584,5 5 7 4 5	518589 30 30 30 30 30
t-Butyl alcohol Benzene 1,2-Dichloroethane Toluene	N.D. N.D. N.D. N.D.	0.020 0.0005 0.001 0.001	mg/kg mg/kg mg/kg mg/kg	101 92 91 88	104 99 98 97	66-146 84-115 76-135 81-116	2 7 9	30 30 30 30
Ethylbenzene	N.D.	0.001	mg/kg	83	90	82-115	8	30

\*- 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 Reported: 12/01/08 at 03:38 PM Group Number: 1118409

#### Laboratory Compliance Quality Control

<u>Analysis Name</u> Xylene (Total)	<b>Blank <u>Result</u> N.D.</b>	<b>Blank</b> <u>MDL</u> 0.001	<b>Report <u>Units</u> mg/kg</b>	<b>LCS</b> <u>%REC</u> 85	<b>LCSD</b> <u>%REC</u> 93	LCS/LCSD <u>Limits</u> 82-117	<u>RPD</u> 8	<u>RPD Max</u> 30
Batch number: B083121AA	Sample n	umber(s):	5518590-5	518591				
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	91	84	72-117	8	30
di-Isopropyl ether	N.D.	0.001	mq/kq	89	85	72-120	4	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	87	82	67-124	6	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	87	81	60-132	7	30
t-Butvl alcohol	N.D.	0.020	ma/ka	105	103	66-146	2	30
Benzene	N.D.	0.0005	mg/kg	97	93	84-115	5	30
1,2-Dichloroethane	N.D.	0.001	ma/ka	112	104	76-135	7	30
Toluene	N.D.	0.001	ma/ka	93	90	81-116	4	30
1,2-Dibromoethane	N.D.	0.001	ma/ka	95	85	77-114	10	30
Ethylbenzene	N.D.	0.001	ma/ka	88	83	82-115	5	30
Xylene (Total)	N.D.	0.001	mg/kg	90	85	82-117	6	30
Batch number: B083131AB	Sample n	umber(s):	5518588,5	518592-55	18594			
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	88	87	72-117	1	30
di-Isopropyl ether	N.D.	0.001	mg/kg	90	88	72-120	3	30
Ethvl t-butvl ether	N.D.	0.001	ma/ka	88	86	67-124	2	30
t-Amvl methyl ether	N.D.	0.001	ma/ka	88	87	60-132	1	30
t-Butyl alcohol	N.D.	0.020	ma/ka	103	110	66-146	6	30
Benzene	N.D.	0.0005	ma/ka	104	101	84-115	4	30
1.2-Dichloroethane	N.D.	0.001	ma/ka	105	102	76-135	3	30
Toluene	N.D.	0.001	ma/ka	101	97	81-116	5	30
1 2-Dibromoethane	N D	0 001	ma/ka	90	89	77-114	2	30
Ethylbenzene	N D	0 001	ma/ka	94	92	82-115	2	30
Xylene (Total)	N.D.	0.001	mg/kg	98	95	82-117	2	30
Batch number: B083131AC	Sample n	umber(s):	5518585					
Methyl Tertiary Butyl Ether	N.D.	0.0005	ma/ka	88	87	72-117	1	30
di-Isopropyl ether	N.D.	0.001	ma/ka	90	88	72-120	3	30
Ethyl t-butyl ether	N.D.	0.001	ma/ka	88	86	67-124	2	30
t-Amvl methyl ether	N.D.	0.001	ma/ka	88	87	60-132	1	30
t-Butyl alcohol	N D	0 020	ma/ka	103	110	66-146	6	30
Benzene	N D	0 0005	ma/ka	104	101	84-115	4	30
1 2-Dichloroethane	N D	0 001	ma/ka	105	102	76-135	3	30
Toluene	N D	0 001	ma/ka	101	97	81-116	5	30
1 2-Dibromoethane	ND.	0.001	ma/ka	90	89	77-114	2	30
Fthylbenzene	ND.	0.001	ma/ka	94	92	82-115	3	30
Xylene (Total)	N.D.	0.001	mg/kg	98	95	82-117	2	30
Batch number: D083172AA	Sample n	umber(s):	5518572-5	518573,55	18595,5518	3597		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/1	104	,	73-119		
di-Isopropyl ether	N.D.	0.5	ug/1	90		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/1	100		74-120		
t-Amvl methyl ether	N.D.	0.5	ug/1	107		79-113		
t-Butyl alcohol	N.D.	2	ug/1	100		74-117		
Benzene	N.D.	0.5	ug/1	97		78-119		
1 2-Dichloroethane	N D	0.5	ug/1	109		69-135		
Toluene	N.D	0.5	11g/1	107		85-115		
1.2-Dibromoethane	N.D	0.5	11g/1	105		81-114		
Ethylbenzene	N D	0.5	ug/1	104		82-119		
Xvlene (Total)	м.р.	0.5	ug/1	110		83-113		
Ayrene (Iotar)	11.0.	0.5	uy/ I	TT0		00-110		
Batch number: D083181AA	Sample n	umber(s):	5518596					

\*- 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 Reported: 12/01/08 at 03:38 PM Group Number: 1118409

Laboratory Compliance Quality Control

Analysis Name	Blank Regult	Blank MDI.	Report	LCS %REC	LCSD %REC	LCS/LCSD	חסק	PPD May
Methyl Tertiary Butyl Ether	N D	0 5	$\frac{0\pi l c \beta}{1\pi l c}$	108	- on HC	73-119	<u>KI D</u>	<u>MD Mux</u>
di-Isopropyl ether	N.D.	0.5	ug/1	84		70-123		
Ethyl t-butyl ether	N.D.	0.5	ug/1	97		74-120		
t-Amvl methyl ether	N.D.	0.5	ug/1	108		79-113		
t-Butyl alcohol	N.D.	2.	ug/1	90		74-117		
Benzene	N.D.	0.5	uq/1	94		78-119		
1.2-Dichloroethane	N.D.	0.5	ug/1	111		69-135		
Toluene	N.D.	0.5	uq/1	93		85-115		
1,2-Dibromoethane	N.D.	0.5	uq/l	93		81-114		
Ethvlbenzene	N.D.	0.5	uq/l	91		82-119		
Xylene (Total)	N.D.	0.5	ug/l	95		83-113		
Batch number: R083121AA	Sample n	umber(s):	5518575-55	518576,55	18579-551	8580,5518586-5	518587	
Methyl Tertiary Butyl Ether	N.D.	0.025	ma/ka	97	98	72-117	1	30
di-Isopropyl ether	N.D.	0.050	mg/kg	95	97	72-120	1	30
Ethyl t-butyl ether	N.D.	0.050	mg/kg	96	98	67-124	1	30
t-Amyl methyl ether	N.D.	0.050	mg/kg	98	99	60-132	2	30
t-Butyl alcohol	N.D.	1.0	mg/kg	94	94	66-146	0	30
Benzene	N.D.	0.025	mg/kg	95	96	84-115	1	30
1,2-Dichloroethane	N.D.	0.050	mg/kg	97	98	76-135	1	30
Toluene	N.D.	0.050	mg/kg	96	98	81-116	2	30
1,2-Dibromoethane	N.D.	0.050	mg/kg	98	99	77-114	1	30
Ethylbenzene	N.D.	0.050	mg/kg	96	97	82-115	1	30
Xylene (Total)	N.D.	0.050	mg/kg	95	96	82-117	1	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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 083100037A TPH-DRO by 8015B w/Silica Gel	Sample 92	number(s)	: 5518571, 30-159	5518574	4-55185	91 UNSPK: N.D.	P518570 BKG: N.D.	P518570 0 (1)	20
Batch number: 083100037B Total TPH TPH Motor Oil C16-C36	Sample 91	number(s)	: 5518571, 49-123	5518574	4-55185	91 UNSPK: N.D. N.D.	P518570 BKG: N.D. N.D.	P518570 0 (1) 0 (1)	20 20
Batch number: 08311A33A TPH-GRO - Soils	Sample 83	number(s) 92	: 5518571, 39-118	551857 11	4,55185 30	77-5518584	,5518588-551	8591 UNSPK:	5518582
Batch number: 08311A33B TPH-GRO - Soils	Sample 83	number(s) 92	: 5518575- 39-118	551857 11	6,55185 30	85-5518587	UNSPK: P518	582	
Batch number: 083150016A Total TPH	Sample 86	number(s)	: 5518592- 49-123	551859	4 UNSPK	: P520061 N.D.	BKG: P520061 N.D.	0 (1)	20
Batch number: 08315A08A TPH-GRO N. CA water C6-C12	Sample 81	number(s)	: 5518572- 63-154	551857	3,55185	95 UNSPK:	P518569		
Batch number: 08315B15A	Sample	number(s)	: 5518596-	551859	7 UNSPK	I: P519994			

\*- Outside of specification

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



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Dup RPD

## Quality Control Summary

MSD

MS/MSD

Client Name: ChevronTexaco Reported: 12/01/08 at 03:38 PM Group Number: 1118409

BKG

DUP

DUP

Sample Matrix Quality Control

RPD

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

MS

<u>Analysis Name</u> TPH-GRO N. CA water C6-C12	<u>%REC</u> 100	<u>%REC</u>	<u>Limits</u> 63-154	<u>RPD</u>	MAX	Conc	<u>Conc</u>	<u>RPD</u>	Max
Batch number: B083112AA	Sample	e number(s	s): 551857	1,55185	74,5518	3577-55185	78,5518581-	5518584,551	18589 UNSPK
	P51593	L1							
Methyl Tertiary Butyl Ether	73		59-119						
di-lsopropyl ether			58-113						
Ethyl t-butyl ether	71		60-112						
t-Amyl methyl ether	70		54-121						
t-Butyl alcohol	105		50-143						
Benzene	81		66-112						
1,2-Dichloroethane	91		62-130						
Toluene	72		58-116						
1,2-Dibromoethane	73		65-115						
Ethylbenzene	54		54-116						
Xylene (Total)	56		52-117						
Batch number: B083121AA	Sample	e number(s	s): 551859	0-55185	91 UNSI	PK: 551859	1		
Methyl Tertiary Butyl Ether	94		59-119						
di-Isopropyl ether	100		58-113						
Ethyl t-butyl ether	92		60-112						
t-Amyl methyl ether	90		54-121						
t-Butyl alcohol	120		50-143						
Benzene	117*		66-112						
1,2-Dichloroethane	124		62-130						
Toluene	112		58-116						
1,2-Dibromoethane	100		65-115						
Ethvlbenzene	106		54-116						
Xylene (Total)	109		52-117						
Batch number: B083131AB	Sample	e number(s	s): 551858	8,55185	92-5518	3594 UNSPK	: 5518593		
Methyl Tertiary Butyl Ether	105		59-119						
di-Isopropyl ether	110		58-113						
Ethyl t-butyl ether	103		60-112						
t-Amyl methyl ether	102		54-121						
t-Butyl alcohol	143		50-143						
Benzene	133*		66-112						
1,2-Dichloroethane	131*		62-130						
Toluene	131*		58-116						
1,2-Dibromoethane	116*		65-115						
Ethvlbenzene	125*		54-116						
Xylene (Total)	128*		52-117						
Batch number: B083131AC	Sample	e number(s	s): 551858	5 UNSPK	: P5185	593			
Methvl Tertiarv Butvl Ether	105		59-119						
di-Isopropyl ether	110		58-113						
Ethyl t-butyl ether	103		60-112						
t-Amyl methyl ether	102		54-121						
t-Butyl alcohol	143		50-143						
Benzene	133*		66-112						
1.2-Dichloroethane	131*		62-130						
Toluene	131*		58-116						
1.2-Dibromoethane	116*		65-115						
Ethylbenzene	125*		54-116						
			0 · · · · 0						

\*- 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 Reported: 12/01/08 at 03:38 PM Group Number: 1118409

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> 128*	MSD <u>%REC</u>	MS/MSD Limits 52-117	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Patch number, D0821721A	Sample	number (	JZ-II/	0 661067	5 EE10	EQE EE19E	OT INCOV. E	E10E70	
Mothyl Tortiory Putyl Ethor	110	110	60 127	- 22192 V	3,0010	393,33103	97 UNSPR: 5	510575	
Methyi Tertiary Butyi Ether	110	110	69-127	0	20				
di-isopropyi ether	99	99	68-129	0	30				
Etnyi t-butyi etner	107	109	78-119	1	30				
t-Amyl methyl ether	115	116	72-125	T	30				
t-Butyl alcohol	101	106	70-121	5	30				
Benzene	104	104	83-128	0	30				
1,2-Dichloroethane	112	114	70-143	1	30				
Toluene	111	109	83-127	2	30				
1,2-Dibromoethane	108	111	78-120	2	30				
Ethylbenzene	111	111	82-129	0	30				
Xylene (Total)	115	113	82-130	1	30				
Batch number: D083181AA	Sample	number(s	s): 5518596	UNSPK:	P5214	10			
Methyl Tertiary Butyl Ether	100	115	69-127	10	30				
di-Isopropyl ether	86	89	68-129	4	30				
Ethyl t-butyl ether	100	103	78-119	4	30				
t-Amvl methyl ether	112	119	72-125	6	30				
t-Butvl alcohol	77	98	70-121	9	30				
Benzene	98	101	83-128	4	30				
1,2-Dichloroethane	112	117	70-143	4	30				
Toluene	96	101	83-127	6	30				
1,2-Dibromoethane	92	97	78-120	5	30				
Ethylbenzene	97	100	82-129	3	30				
Xvlene (Total)	101	105	82-130	4	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 soil C10-C28 w/Si Gel Batch number: 083100037A Orthoterphenyl

5518571	90
5518574	98
5518575	90
5518576	101
5518577	101
5518578	91
5518579	99
5518580	91
5518581	98
5518582	100
5518583	90
5518584	94
5518585	92

\*- 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

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Client Name: ChevronTexaco Reported: 12/01/08 at 03:38 PM Group Number: 1118409

Surrogate Quality Control

5518586	93
5518587	96
5518588	89
5518589	85
5518590	96
5518591	91
Blank	104
DUP	102
LCS	109
MS	103

Limits: 59-129

Analysis Name: TPH Fuels by GC (Soils) Batch number: 083100037B

	Chiorobenzene	orthoterphenyi
5518571	99	86
5518574	98	91
5518575	95	86
5518576	271*	92
5518577	99	83
5518578	99	86
5518579	0*	90
5518580	0*	93
5518581	95	89
5518582	94	87
5518583	101	89
5518584	96	83
5518585	112	83
5518586	175*	88
5518587	238*	91
5518588	106	82
5518589	91	85
5518590	92	84
5518591	96	81
Blank	93	93
DUP	100	90
LCS	89	78
MS	94	91
Limits:	37-125	59-129
Analysis M Batch numb	Name: TPH-GRO N. CA soil ber: 08310A34B Trifluorotoluene-F	C6-C12
5518592	77	
5518593	77	
5518594	78	
Blank	81	
LCS	79	
LCSD	84	
Limits	61-122	

Analysis Name: TPH-DRO soil C10-C28 w/Si Gel Batch number: 083110001A

\*- 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 Reported: 12/01/08 at 03:38 PM Group Number: 1118409

eu: 12/01/08 at 05:58 FM

Surrogate Quality Control

Orthoterphenyl

5518592	87	
5518593	93	
5510555	96	
Dlamb	100	
DIAIIK	100	
LCS	108	
LCSD	105	
Limits:	59-129	
Analvsis Nar	ne: TPH-DRO water C10-C28 v	w/Si Gel
Batch number	c: 083110006A	
240011 114	Orthoterphenyl	
	01010001p11011/1	
5518572	89	
5518573	84	
5518595	93	
5510555	95	
5516596	90	
JJICJJ/	92	
DIGIIK	70 107	
TCS	110	
LCSD	110	
Limits:	54-127	
Analysis Nar	ne: TPH Fuels by GC (Waters	s)
Batch number	r: 083110007A	
	Chlorobenzene	Orthoterphenyl
5518572	778*	80
5518573	62	86
5518595	0*	86
5518596	245*	90
5518597	65	77
Blank	86	95
LCS	77	94
LCSD	83	100
Timiter	00.150	50.101
Limits:	28-152	52-131
Analysis Nar	ne. TPH-GRO N CA soil C6-(	C1 2
Batch number	r: 08311A33A	
240011 114	Trifluorotoluene-F	
5518571	90	
5518574	83	
5518577	82	
5518578	83	
5510570	65	
00100/9	0" 11 <del>*</del>	
001000U	TT	
2278287	92	
5518582	92 92	
5518583	83	
5518584	79	
5518588	79	
5518589	87	
5518590	79	

\*- 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 Reported: 12/01/08 at 03:38 PM

85

5518591

Group Number: 1118409

Surrogate Quality Control

Blank	90	
LCS	87	
MS	85	
MSD	89	
Limits:	61-122	
Analysis Na	ne: TPH-GRO N. CA soil C6-	C12
Batch numbe:	r: 08311A33B	
	Trifluorotoluene-F	
5518575	11*	
5518576	13*	
5518585	12*	
5518586	28*	
5518587	15*	
Blank	85	
LCS	87	
MS	85	
MSD	89	
Limits:	61-122	
Analysis Na	ne: TPH Fuels by GC (Soils	
Batch numbe:	r: 083150016A	
	Chlorobenzene	Orthoterphenyl
5518592	89	85
5518593	75	79
5518594	86	89
Blank	96	95
DUP	77	83
LCS	88	97
MS	84	93
Limits:	37-125	59-129
Analysis Nai	ne: TPH-GRO N. CA water C6	-C12
Batch numbe:	r: 08315A08A	
	Trifluorotoluene-F	
5518572	26	
5518573	92	
5518595	119	
Blank	95	
LCS	107	
LCSD	106	
MS	100	
Timita	62 125	
LILLICS:	0 J - T J J	
Analycic Na	me, TDU_CRO N CA water C6	- 012
Ratch number	$r \cdot 08315815\Delta$	
Dacen numbe.	Trifluorotoluene-F	
5518596	175*	
5518597	101	
5510551		

\*- 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 Reported: 12/01/08 at 03:38 PM Group Number: 1118409

#### Surrogate Quality Control

Blank	106
LCS	106
LCSD	105
MS	114

Limits: 63-135

Analysis Name: BTEX+5 Oxygenates+EDC+EDB Batch number: B083112AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5518571	93	78	80	76
5518574	92	85	82	79
5518577	94	87	80	81
5518578	89	81	83	82
5518581	97	97	79	85
5518582	92	83	82	78
5518583	94	85	81	79
5518584	94	82	83	78
5518589	98	90	80	79
Blank	93	86	82	79
LCS	90	84	84	84
LCSD	90	85	84	84
MG	91	80	86	86
110	21	00	55	00
Limits:	71-114	70-109	70-123	70-111
Analysis M Batch numb	Name: BTEX+5 Oxygenates+ED oer: B083121AA Dibromofluoromethane	C+EDB 1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
<u>EE10E00</u>	0.5	00	01	70
5516590	95	82	01	70
2218221	97	82	81	78
Blank	94	84	81	79
LCS	91	86	85	87
LCSD	92	83	84	86
MS	93	81	85	87
Limits:	71-114	70-109	70-123	70-111
Analysis M Batch numb	Name: BTEX+5 Oxygenates+ED ber: B083131AB Dibromofluoromethane	C+EDB 1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5518588	94	83	81	80
5518592	89	81	82	83
5518593	93	76	80	80
5518594	93	83	79	81
Blank	91	84	81	81
LCS	89	85	83	86
LCSD	91	82	83	85
MS	91	80	84	87
Limits:	71-114	70-109	70-123	70-111
Analysis B	Name: BTEX+5 Oxygenates+ED	C+EDB		
Datti IIU	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

\*- 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 Reported: 12/01/08 at 03:38 PM Group Number: 1118409

#### Surrogate Quality Control

Markov         92         86         79         80           LCS         89         85         83         86           LCSD         91         82         83         85           MS         91         80         84         87           Limits:         71-114         70-109         70-123         70-111           Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Batch number: D083172AA         09         44         87           Dibromofluoromethane         1,2-Dichloroethane-d4         Toluene-d8         4-Bromofluorobenzene           551857         97         95         97         109           551859         97         109         95           51859         94         96         97         111           551859         94         96         91         104           MS         95         96         107         104           MS         93         95         94         103           LCS         95         96         103         104           LCS         91         104         86         103           LCS         95         104         86         103	5519595	94	83	77	106
ICSD         89         85         83         86         86           ICSD         91         80         84         87           LImits:         71-114         70-109         70-123         70-111           Analysis Name:         BTEX+5         Oxygenates+EDC+EDB         36         4-Bromofluorobenzene           S518572         93         95         97         109           S518573         97         98         94         98           S518573         97         98         94         98           S518597         93         95         97         109           S518597         97         98         94         98           S518597         97         101         104         98           S518597         94         96         97         111           MD         96         97         104         104           MD         93         95         94         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5         0xygenates+EDC+EDE         86         93           LCS         99         104 <td>Blank</td> <td>92</td> <td>86</td> <td>79</td> <td>80</td>	Blank	92	86	79	80
Description         Signature	LCS	89	85	83	86
MS         91         80         84         87           Limits:         71-114         70-109         70-123         70-111           Analysis Name:         PTEX+5         Oxygenates+EDC+EDE         Batch number:         06         97           Batch number:         Dibromofluoromethane         1, 2-Dichloroethane-d4         Toluene-d8         4-Bromofluorobenzene           5518572         93         95         97         109           5518573         97         96         93         95           5518573         97         96         93         95           518595         91         96         93         95           Blank         94         95         96         107           MS         95         96         97         104           MBD         93         95         94         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5         0xygenates+EDC+EDE         105           Blank         101         104         86         93           LCS         99         104         87         105           MSD	LCSD	91	82	83	85
Limits:       71-114       70-109       70-123       70-111         Analysis Name:       ETEX+5 Oxygenates+EDC+EDB       Batch number:       D093172AA       4-Bromofluorobenzene         5518572       93       95       97       109         5518573       97       98       94       98         5518574       93       95       97       109         5518575       91       96       97       111         5518579       94       96       97       111         5518579       94       96       97       111         5518597       94       95       96       97       111         Analysis Name:       BTEX+5       0xygenates+EDC+EDB       96       96       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB       86       103         Blank       101       104       86       93         LCS       99       104       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113 <t< td=""><td>MS</td><td>91</td><td>80</td><td>84</td><td>87</td></t<>	MS	91	80	84	87
Analysis Name: BTEX+5 Oxygenates+EDC+EDE Batch number: D093172AA         Jobromofluoromethane         1,2-Dichloroethane-d4         Toluene-d8         4-Bromofluorobenzene           5518572         93         95         97         109           5518573         97         98         94         98           5518573         97         98         94         98           5518597         94         96         93         95           5518597         94         95         93         95           5181997         94         95         96         91           LGS         95         96         96         97         104           MS         99         93         95         94         103           Lmits:         80-116         77-113         80-113         78-113           Analysis Name: BTEX+5 Oxygenates+EDC+EDE         Blank         101         104         86         93           LCS         99         104         87         105         105         105           MSD         96         102         86         103         104           Malysis Name: BTEX+5 Oxygenates+EDC+EDE         Biank         101         104         86<	Limits:	71-114	70-109	70-123	70-111
Batch number:         Dibromofluoromethane         1,2-Dichloroethane-d4         Toluene-d8         4-Bromofluorobenzene           5518572         93         95         97         109           5518573         97         98         94         98           5518573         97         98         94         98           5518579         94         96         93         91           5518597         94         95         93         91           LCS         95         96         93         91           LCS         95         96         96         107           MSD         93         95         94         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5 Oxygenates+EDC+EDB         Batch number:         103         106           S18596         94         96         85         108         106           S18596         94         96         86         93         105           LCS         99         104         87         105         105           MSD         96         102         86         103         105 </td <td>Analysis M</td> <td>Name: BTEX+5 Oxygenates+ED</td> <td>C+EDB</td> <td></td> <td></td>	Analysis M	Name: BTEX+5 Oxygenates+ED	C+EDB		
Siles72         93         95         97         109           5518573         97         98         94         98           5518573         97         93         94         98           5518573         97         93         91         111           5518573         91         96         97         111           5518573         94         95         93         91           LCS         95         96         96         107           MS         95         93         91         104           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5         0xygenates+EDC+EDB         4-Bromofluorobenzene           Sil8596         94         103         108         100           Blank         101         104         86         93           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5         0xygenates+EDC+EDB         86         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5         0xygena	Batch num	Dibromofluoromethane	1.2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5518572       93       95       97       109         5518573       97       98       94       98         5518595       91       96       97       111         5518595       91       96       93       95         Blank       94       95       93       95         Blank       94       95       93       95         LCS       95       96       90       107         MSD       93       95       94       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB       Toluene-d8       4 -Bromofluorobenzene         518596       94       96       85       108         Blank       101       104       86       93         LCS       99       104       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB       EDE       5518576       82       87       86       85         S518576       82       8					
5518573       97       98       94       98         5518595       91       96       97       111         5518597       94       96       93       95         Blank       94       95       93       95         LCS       95       96       97       104         MSD       93       95       94       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5       Oxygenates+EDC+EDB       Batch number:       Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518596       94       96       85       108       100       104       86       93         LCS       99       104       87       105       105       105       105       105       105       105       105       105       105       105       103       101       104       86       103       105	5518572	93	95	97	109
5518595       91       96       97       111         5518597       94       95       93       95         Blank       94       95       93       91         LCS       95       96       93       91         MSD       95       98       97       104         MSD       93       95       94       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDE       standard standar	5518573	97	98	94	98
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5518595	91	96	97	111
Blank     94     95     93     91       LCS     95     96     107       MSD     93     95     98     97     104       MSD     93     95     94     103       Limits:     80-116     77-113     80-113     78-113       Analysis Name:     ETEX+5 Oxygenates+EDC+EDB     85     108       Batch number:     D03181AA     101     104     85       Dibromofluoromethane     1, 2-Dichloroethane-d4     Toluene-d8     4-Bromofluorobenzene       551856     94     96     85     108       Blank     101     104     87     105       MSD     96     102     86     103       Limits:     80-116     77-113     80-113     78-113       Analysis Name:     ETEX+5 Oxygenates+EDC+EDB     86     103       Limits:     80-116     77-113     80-113     78-113       Analysis Name:     ETEX+5 Oxygenates+EDC+EDB     86     89       S518576     82     85     86     89       S518576     82     87     86     85       S518576     82     87     86     85       S518576     82     87     86     85    <	5518597	94	96	93	95
LCS       95       96       96       107         MSD       95       98       97       104         MSD       93       95       94       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       ETEX+5 Oxygenates+EDC+EDB       303       78-113         Analysis Name:       Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518596       94       96       85       108         Blank       101       104       86       93         LCS       99       104       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       ETEX+5 Oxygenates+EDC+EDB       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       ETEX+5 Oxygenates+EDC+EDB       86       85         Stats76       82       87       86       85         Stats76       82       87       86       85         Stats76       82       87	Blank	94	95	93	91
MS         95         98         97         104           MSD         93         95         94         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         ETEX+5 Oxygenates+EDC+EDB         77-113         80-113         78-113           Analysis Name:         ETEX+5 Oxygenates+EDC+EDB         70-113         80-113         4-Bromofluorobenzene           5518596         94         96         85         108         108           Blank         101         104         86         93         105           LCS         99         102         87         105         103           MSD         96         102         86         103         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         ETEX+5 Oxygenates+EDC+EDB         102         86         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         ETEX+5 Oxygenates+EDC+EDB         102         86         103           S518575         82         87         86         85           S51	LCS	95	96	96	107
MSD         93         95         94         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5 Oxygenates+EDC+EDE         Batch number:         D083181AA         4-Bromofluorobenzene           S518596         94         96         85         108           Blank         101         104         86         93           LCS         99         104         87         105           MSD         96         102         86         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5 Oxygenates+EDC+EDE         Batch number:         R083121AA         78-113           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5 Oxygenates+EDC+EDE         Batch number:         R083121AA           Dibromofluoromethane         1,2-Dichloroethane-d4         Toluene-d8         4-Bromofluorobenzene           5518576         82         87         86         85           5518577         82         87         86         85           5518578         82         87	MS	95	98	97	104
Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB       4-Bromofluorobenzene         Solitoromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518596       94       96       85       108         Blank       101       104       86       93         LCS       99       104       87       105         MSD       96       102       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB       Batch number:       R08121AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518575       82       85       86       85         5518575       82       85       112       111         5518580       86       90       98       99         5518575       82       87       86       85         5518575       82       85       112       111         5518587       82	MSD	93	95	94	103
Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Batch number: D083181AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518596       94       96       85       108         Blank       101       104       86       93         LCS       99       104       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       Batch number: R083121AA       pibromofluoromethane       1, 2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518575       82       85       86       89       5518575       82       85       112       111         5518575       82       85       112       111       5518586       88       99         5518575       82       87       87       86       88       99         5518575       82       85       112       111       5518587       82       87       88         5518575       82       87       86       88       99       9518586       88       99	Limits:	80-116	77-113	80-113	78-113
5518596       94       96       85       108         Blank       101       104       86       93         LCS       99       104       87       105         MS       100       102       87       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB       86       103         Batch number:       R083121AA       Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518575       82       85       86       89       5518576       82       87       86       85         5518576       82       87       86       85       5518579       82       86       89         5518576       82       87       86       85       85       86       85         5518586       86       90       98       99       99       95       93       99         5518587       82       87       86       88       88       88       88       88       88       88       88       88       88       88       88       88       88       88		Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank       101       104       86       93         LCS       99       104       87       105         MS       100       102       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name:       ETEX+5 Oxygenates+EDC+EDB       85       86       89         Batch number:       R083121AA       Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518575       82       85       86       89         5518576       82       87       86       85         5518576       82       87       86       85         5518576       82       87       86       85         5518576       82       87       86       85         5518586       82       87       86       88         5518587       82       87       88       88         5518587       82       87       86       88         518586       82       87       86       88         518586       82       87	5518596	94	96	85	108
LCS       99       104       87       105         MS       100       102       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       85       86       89         Batch number: R083121AA       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518575       82       85       86       89         5518575       82       87       86       85         5518576       82       87       86       89         5518579       82       87       86       85         5518579       82       87       86       88         5518579       82       87       86       88         5518587       82       87       86       88         5518587       82       87       86       88         5518587       82       87       86       88         5518587       82       87       86       88         5518587       82       87       86       88         518586 <td>Blank</td> <td>101</td> <td>104</td> <td>86</td> <td>93</td>	Blank	101	104	86	93
MS       100       102       87       105         MSD       96       102       86       103         Limits:       80-116       77-113       80-113       78-113         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       85       80-113       78-113         Analysis Name: BTEX+5 Oxygenates+EDC+EDB       85       86       4-Bromofluorobenzene         5518575       82       85       86       89         5518576       82       87       86       85         5518579       82       85       112       111         5518586       82       87       86       88         5518587       82       87       86       88         Blank       93       96       95       93       95         LCS       95       100       97       97       97         LCSD       93       95       96       95       95         Limits:       71-114       70-109       70-123       70-111	LCS	99	104	87	105
MSD         96         102         86         103           Limits:         80-116         77-113         80-113         78-113           Analysis Name:         BTEX+5 Oxygenates+EDC+EDB         80-113         78-113           Batch number:         R083121AA         1,2-Dichloroethane-d4         Toluene-d8         4-Bromofluorobenzene           5518575         82         85         86         89           5518576         82         87         86         85           5518576         82         87         86         85           5518576         82         87         86         85           5518576         82         87         86         85           5518576         82         87         86         85           5518576         82         87         86         85           5518586         82         87         88         85           518587         82         87         86         88           Blank         93         96         95         93           LCS         95         100         97         97           LCSD         93         95         96         <	MS	100	102	87	105
Limits:       80-116       77-113       80-113       78-113         Analysis Name:       BTEX+5 Oxygenates+EDC+EDB             Batch number:       R083121AA       Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518575       82       85       86       89         5518576       82       87       86       85         5518579       82       85       112       111         5518580       86       90       98       99         5518580       86       87       88       85         5518577       82       87       86       88         5518587       82       87       86       88         5518587       82       87       86       88         518587       82       87       86       88         Blank       93       96       95       93         LCS       95       100       97       97         LCSD       93       95       96       95         Limits:       71-114       70-109       70-123       70-111	MSD	96	102	86	103
Analysis Name: BTEX+5 Oxygenates+EDC+EDB         Batch number: R083121AA         Dibromofluoromethane       1,2-Dichloroethane-d4       Toluene-d8       4-Bromofluorobenzene         5518575       82       85       86       85         5518576       82       87       86       85         5518579       82       85       112       111         5518586       82       87       87       88         5518587       82       87       86       88         5518587       82       87       86       88         5518587       82       87       86       88         5518587       82       87       86       88         518587       82       87       86       88         518587       82       87       95       93         LCS       95       100       97       97         LCSD       93       95       96       95         Limits:       71-114       70-109       70-123       70-111	Limits:	80-116	77-113	80-113	78-113
Batch Humbel: Rossizian Dibromofluoromethane1,2-Dichloroethane-d4Toluene-d84-Bromofluorobenzene55185758285868955185768287868555185798285112111551858086909899551858782878788551858782878688Blank93969593LCS951009797LCSD93959695Limits:71-11470-10970-12370-111	Analysis M	Name: BTEX+5 Oxygenates+ED	C+EDB		
55185758285868955185768287868555185798285112111551858086909899551858682878788551858782878688Blank93969593LCS951009797LCSD93959695Limits:71-11470-10970-12370-111	Daten null	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5518576     82     87     86     85       5518579     82     85     112     111       5518580     86     90     98     99       5518586     82     87     87     88       5518587     82     87     86     88       518587     82     87     86     88       12     96     95     93       12     100     97     97       12     95     96     95       12     95     96     95       12     95     96     95	5518575	82	85	86	89
5518579     82     85     112     111       5518580     86     90     98     99       5518586     82     87     88       5518587     82     87     86       Blank     93     96     95       LCS     95     100     97       LCSD     93     95     95       Limits:     71-114     70-109     70-123     70-111	5518576	82	87	86	85
5518580     86     90     98     99       5518586     82     87     87     88       5518587     82     87     86     88       Blank     93     96     95     93       LCS     95     100     97     97       LCSD     93     95     96     95	5518579	82	85	112	111
5518586     82     87     87     88       5518587     82     87     86     88       Blank     93     96     95     93       LCS     95     100     97     97       LCSD     93     95     96     95	5518580	86	90	98	99
5518587     82     87     86     88       Blank     93     96     95     93       LCS     95     100     97     97       LCSD     93     95     96     95       Limits:     71-114     70-109     70-123     70-111	5518586	82	87	87	88
Blank         93         96         95         93           LCS         95         100         97         97           LCSD         93         95         96         95           Limits:         71-114         70-109         70-123         70-111	5518587	82	87	86	88
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Limits: 71-114 70-109 70-123 70-111	LCSD	93	95	96	95
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(1) The result for one or both determinations was less than five times the LOQ.

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Facility #: <u>30 - 723</u> Site Address: <u>225</u> Chevron PM: <u>TAN</u> Consultant/Office: <u>F</u> Consultant Prj. Mgr.: <u>Consultant Phone #: 5</u> Sampler: <u>B</u> YIF Service Order #: <u>Service Order #:</u> Field Point Name <u>CPT 5-5</u>	AI FI POBB MERY CHAR SIO-4 RU Matrix SOIL	L PST VILL 20-335 Repeat Sample N		LIV EPA consultant: VANS Fax #: _510- D SAR: Year Month [ 08 10 3	$\frac{AORE}{CRA}$ $\frac{CRA}{Time}$ $\frac{Time}{Collected}$ $\frac{Time}{Oav}$		X Grab	Composite	Total Number of Containers		X TPH 8015 MOD GRO	X TPH 8015 MOD DRO Silica Gel Cleanup	8260 full scan	A Crygenates LEAD SCAUS.	Lead 7420  7421	TPHMO by 8015 M		5		Preserv H = HCl N = HINO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub> J value repo Must meet la possible for 8021 MTBE CA Confirm high Confirm all I RunO RunO Comments / PLEASE RESV LTS CEVANS G ihv11 EDF TO Johare	T = Thios B = NaO O = Othe of the needed west detect 8260 compo onfirmation nest hit by 82 hits by 8260 cy's on highe cy's on all hit Remarks E - MAIL TO	es sulfate H r ion limits unds 260 est hit s
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Chevron California Region Analysis Request/Chain of Custody

Lancaster	Labor	atories	<u>,</u>	م م ا	~ ^	$\sim$		Ac	:ct. #:	1(	28	<u>80</u>	)_ Sa	F ample	for La	inca 55	ster La	iborato	ories u	use on	ly	25	080
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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300

3460 Rev. 10/04/01

Copies. White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

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Lancaster	Labo	ratories	5	הא <sup>(</sup>	นกช_	67		A	cct. #:	10	88	ŝD	Sam	For	Lanci	aster )	Labo	ratorie D1	sus 7-	e only 7	250	808
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Sampler: S. McA	Verse	<u>e</u>				···· ···· ··· ···			te	mbei	Ж 89			enates		3					Confirm highest hit by 826	D
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Chevron C	California F	Regior	Ana	alysis Re	equest/Cha	in of Custody
Where quality is a science.	-05	Acct. #:\	880	For Lancas Sample #: 55 1 Analyses F	ter Laboratories use onl 8570 - 97 Requested	x 250808
Facility #: $\underline{30-7233}$ AILSite Address: $\underline{2259}$ FIRST ST: LIVE RMCChevron PM: $\underline{TAN}$ FOBBLead Consultant: CRConsultant/Office: $\underline{FMERYVILLE}$ Consultant Pri. Mgr.: CHARLOTTEEVA-MSConsultant Pri. Mgr.: CHARLOTTEEVA-MSConsultant Phone #: $\underline{510-420-3351}$ Fax #: $\underline{510}$ Sampler: 1.HULLService Order #:Invite MatrixFieldMatrixPoint NameMatrixSB12 - 15.5SN15.5SB12 - 25.5SSB12 - 35.5SSB12 - 35.5SSB12 - 35.5SSB12 - 50.5SSB12 - 50.5SSB11 - S - 2626SB11 - S - 2636	$\frac{FE}{A}$	Composite	HEX+MTBE 8260 🕅 8021 □     HEX+MTBE 8260 🕅 8021 □	A       X       TPH 8015 MOD DRO A Silica Gel Cleanup         8260 full scan       8260 full scan         X       X       X         X		Preservative Codes H = HCI T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other J value reporting needed Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation Confirm highest hit by 8260 Confirm all hits by 8260 Run oxy's on highest hit Run oxy's on all hits Comments / Remarks PLEASE EMAIL RESVLTS TO CeVans @craworld. i'hvii Com EDF DATA TO doharce Craworld. Com
Turnaround Time Requested (TAT) (please circle)         STD. TAT       72 hour       48 hour         24 hour       4 day       5 day         Data Package Options (please circle if required)       QC Summary       Type I – Full         Type VI (Raw Data)       □ Coelt Deliverable not needed       WIP (RWQCB)         Disk       0       0	Relinquished by: Relinquished by: KEZEL Y Relinquished by: Relinquished by: UP\$ FedEx Temperature Upon Re	$\frac{1}{1} = \frac{1}{1}$	 	Date Time $1/4/08$ $1/4/08$	Received by: SECURE LOU Received by: Received by: DHL Received by: DHL Custody Seals Intact?	TION TION Date 113108 Time 113108 Time 113108 Time 14/08 10/08 10/08 10/08 10/08 10/08

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Facility #: <u>30 - 72</u> Site Address: <u>2250</u> Chevron PM: <u>TAN</u> Consultant/Office: <u>B</u> Consultant Prj. Mgr.: <u>1</u> Consultant Phone #: <u>5</u> Sampler: <u>1</u> , HV L	33 POBE NERY CHAR CHAR	AIL IRST S VILLE LOTTE	ST. Lead C E EV S S I	<u>, LIVERMO</u> onsultant: <u>CR</u> ANS Fax #: <u>Sto-L</u>	PRE , C A +20 - 91	A		ite	imber of Containers	BE 8260 🕅 8021 🗆	VOD GRO	AOD DRO 🙀 Silica Gel Cleanup	P ue	enates y 8260			des			Preservat H = HCI N = HNO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub> J value reporti Must meet low possible for 82 8021 MTBE Cont Confirm higher	tive Code T = Thios B = NaOl O = Other ing needed est detection firmation st hit by 82 by 8260	es ulfate I r on limits unds 60
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Where quality is a science.	23	Acct	#: <u>] (</u>	289	80	Samp	For Lanc le #: 55 Analyse:	aster Laboratories use o 518570 - 97 s Requested	nly 250843 
Facility #: $30-7233$ (AIL)         Site Address: $2259$ FIRST ST., LIVERMON         Chevron PM: $IAN$ POBB       Lead Consultant: CF         Consultant/Office: $EMERYVILLE$ Consultant Prj. Mgr.: $CHARLOTTE$ EVANS         Consultant Phone #: $510-420-3351$ Fax #: $510-$ Sampler: T. HULL         Service Order #:       INon SAR:         Field       Matrix Sample       Depth Year Month Day         SB10-S-16       SOIL       N       16         SB10-S-26       1       26       1         SB10-S-36       36       36       58         SB10-S-62       4       6       58         SB10-S-62       4       62       4	$\frac{2E}{A}$ $\frac{1}{20-9170}$ $\frac{1}{20-9170}$ $\frac{1}{20}$	the Karb	Composite			X TPH 8015 MOD DRO X Silica Gel Cleanup	Lead 7420 □     7421 □	ation Codes	Preservative Codes H = HCl T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other J value reporting needed Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation Confirm highest hit by 8260 Confirm all hits by 8260 Run oxy's on highest hit Run oxy's on all hits Comments / Remarks PLEPOE EMAIL RESULTS TO Calans@craworld. Com ihull@croworld. Com
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Facility #: 30-723 Site Address: 2259 Chevron PM: TAN Consultant/Office: Consultant Prj. Mgr.: Consultant Phone #: Sampler: HUL Service Order #: Field Point Name S&10-W-50	3 (A FIR ROBB MERY CHAR ZIO-I	Repeat Sample N		VERMORE, consultant:( JANS Fax #: 510 n SAR: Year Month Di 208 11 0 M	CA QA ILZO - Tim av Collec ILZO - ILZO - ILZ			X Grab	Composite	O Total Number of Containers		X TPH 8015 MOD GRO	X TPH 8015 MOD DRO Stillica Gel Cleanup	8260 full scan	X 7 Oxygenates LEAD SCAUS	PA33	tion 5108 1 out X					Preservative H = HCI T = T N = HNO <sub>3</sub> B = S = H <sub>2</sub> SO <sub>4</sub> O = J value reporting ne Must meet lowest d possible for 8260 c 8021 MTBE Confirmal Confirm highest hit Confirm all hits by 8 Runoxy's on Runoxy's on Runoxy's on Comments / Rema PLEASE EMF PESULTS (EVANS® Crow i hvit® crawo EDF DATA dohare@crawor	Code Thiosi VaOH Other eded ion by 820 icon by 820 icon bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con bo con con con con con con con co	s Jaifate Inds 50 St hit
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QC Summary Type VI (Raw Data) C WIP (RWQCB)	(piease ( /pe I – Fu ]Coelt De	circle if requ ill sliverable no	of needs	d	Relinqu UPS Temper	rature t	oy Comm FedEx Jpon Re	nercia ceipt	al Car Ot	rrier: her_ $-3^{-1}$	 70	∑°					R		ed by: LO- ly Sea	val Is Inta	1 A 1ct?	Meslund 11/5 (res) No	te /08	Time /0/0

## 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
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 ml

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

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

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

U.S. EPA data qualifiers:

#### **Organic Qualifiers**

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

### **Inorganic Qualifiers**

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

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

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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 1116813. Samples arrived at the laboratory on Saturday, October 25, 2008. The PO# for this group is 0015036089 and the release number is ROBB.

<u>Client Description</u> SB10-S-5-081023 Grab Soil Lancaster Labs Number 5508730

ELECTRONIC Chevron COPY TO ELECTRONIC CRA COPY TO ELECTRONIC CRA COPY TO Attn: CRA EDD Attn: Charlotte Evans

Attn: Ian Hull





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

Respectfully Submitted,

dirictin Dalles

Christine Dulaney Senior Specialist





Page 1 of 2

Lancaster Laboratories Sample No. SW5508730

Group No. 1116813

 SB10-S-5-081023 Grab Soil

 Facility# 307233 CRAW

 2259 First St-Livermore T0600196622 SB10

 Collected:10/23/2008 16:05 by IH

Submitted: 10/25/2008 10:00 Reported: 12/01/2008 at 15:37 Discard: 01/01/2009 Account Number: 10880

ChevronTexaco 6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

FSL10

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
02222	TPH-DRO by 8015B w/Silica Gel	n.a.	N.D.	4.0	mg/kg	1
01725	TPH-GRO - Soils	n.a.	N.D.	1.0	mg/kg	25
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-tet BTEX+5 Oxygenates+EDC+EDB	mix calibratic racontane) noi	in a range that cmal hydrocarbons.	includes		
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
05474	Ethylbenzene	100-41-4	N.D.	0.001	mg/kg	0.97
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									
CAT		-		Analysis		Dilution			
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor			
02222	TPH-DRO by 8015B w/Silica Gel	SW-846 8015B	1	10/30/2008 22:05	Diane V Do	1			
01725	TPH-GRO - Soils	SW-846 8015B modified	1	10/29/2008 17:37	Linda C Pape	25			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	10/30/2008 05:28	Heather E Williams	1			
07361	BTEX+5 Oxygenates+EDC+EDB	SW-846 8260B	1	11/05/2008 05:55	Emily R Styer	0.97			





Page 2 of 2

Lancas	ter Laboratories Sample	No.	SW5508730		Group No. 1116	813	
SB10-S Facili 2259 F Collec	-5-081023 Grab Soil ty# 307233 CRAW irst St-Livermore T06003 ted:10/23/2008 16:05	<b>L96622</b> by I	<b>SB10</b> H	A	ccount Number: 1	.0880	
Submit Report Discar	ted: 10/25/2008 10:00 ed: 12/01/2008 at 15:37 d: 01/01/2009			C 6 5	hevronTexaco 001 Bollinger Ca an Ramon CA 9458	nyon Rd L4310 3	
FSL10							
00374	GC/MS - Bulk Sample Prep	SW-846	5035A Modified	1	11/04/2008 14:27	Eric L Vera	n.a.
00374	GC/MS - Bulk Sample Prep	SW-846	5035A Modified	2	11/04/2008 14:26	Eric L Vera	n.a.
01150	GC - Bulk Soil Prep	SW-846	5030A	1	10/28/2008 09:18	Larry E Bevins	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846	5035A Modified	1	11/04/2008 14:27	Eric L Vera	n.a.
07004	Extraction - DRO (Soils)	SW-846	3550B	1	10/29/2008 11:00	Olivia Arosemena	1
07004	Extraction - DRO (Soils)	SW-846	3550B	2	10/29/2008 11:00	Olivia Arosemena	1



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Page 1 of 3

#### Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:37 PM Group Number: 1116813

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 <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 083020021A TPH-DRO by 8015B w/Silica Gel	Sample num N.D.	ber(s): 5 4.0	5508730 mg/kg	97		76-117		
Batch number: 083020021B Total TPH TPH Motor Oil C16-C36	Sample num N.D. N.D.	ber(s): 5 10. 10.	5508730 mg/kg mg/kg	94		74-119		
Batch number: 08302A34B TPH-GRO - Soils	Sample num N.D.	ber(s): 5 1.0	5508730 mg/kg	97	94	67-119	3	30
Batch number: B083101AA	Sample num	ber(s): 5	5508730					
Methyl Tertiary Butyl Ether	N.D.	0.0005	mg/kg	92	91	72-117	1	30
di-Isopropyl ether	N.D.	0.001	mg/kg	92	91	72-120	1	30
Ethyl t-butyl ether	N.D.	0.001	mg/kg	88	88	67-124	1	30
t-Amyl methyl ether	N.D.	0.001	mg/kg	89	88	60-132	1	30
t-Butyl alcohol	N.D.	0.020	mg/kg	97	94	66-146	3	30
Benzene	N.D.	0.0005	mg/kg	101	99	84-115	2	30
1,2-Dichloroethane	N.D.	0.001	mg/kg	101	97	76-135	3	30
Toluene	N.D.	0.001	mg/kg	98	98	81-116	0	30
1,2-Dibromoethane	N.D.	0.001	mg/kg	96	93	77-114	4	30
Ethylbenzene	N.D.	0.001	mg/kg	91	92	82-115	1	30
Xylene (Total)	N.D.	0.001	mg/kg	93	94	82-117	1	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

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: 083020021A TPH-DRO by 8015B w/Silica Gel	Sample 1 100	number(s)	: 5508730 30-159	UNSPK:	P50872	9 BKG: P50 N.D.	3729 N.D.	0 (1)	20
Batch number: 083020021B Total TPH	Sample 1 92	number(s)	: 5508730 49-123	UNSPK:	P50872	9 BKG: P50 N.D.	8729 N.D.	0 (1)	20
Batch number: B083101AA Methyl Tertiary Butyl Ether di-Isopropyl ether Ethyl t-butyl ether t-Amyl methyl ether t-Butyl alcohol Benzene	Sample 1 92 99 93 90 104 110	number(s)	: 5508730 59-119 58-113 60-112 54-121 50-143 66-112	UNSPK:	P50872	9			

\*- Outside of specification

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



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Page 2 of 3

### Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:37 PM Group Number: 1116813

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	Max
1,2-Dichloroethane	113		62-130						
Toluene	108		58-116						
1,2-Dibromoethane	95		65-115						
Ethylbenzene	101		54-116						
Xylene (Total)	103		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 soil C10-C28 w/Si Gel Batch number: 083020021A Orthoterphenyl

5508730	105			
Blank	114			
DUP	105			
LCS	116			
MS	119			
Limits:	59-129			
Analysis I	Name: TPH Fuels by GC (Soi	ls)		
Baten num	Chlorobenzene	Orthoterphenyl		
5508730	82	95		
Blank	94	94		
DUP	89	95		
LCS	94	100		
MS	95	103		
Limits:	37-125	59-129		
Analysis 1	Name: TPH-GRO N. CA soil C	26-C12		
Batch num	ber: 08302A34B			
	Trifluorotoluene-F			
5508730	70			
Blank	82			
LCS	90			
LCSD	84			
Limits:	61-122			
Analysis I	Name: BTEX+5 Oxygenates+ED	DC+EDB		
batch num	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene

\*- Outside of specification

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





Page 3 of 3

## Quality Control Summary

Client Name: ChevronTexaco Reported: 12/01/08 at 03:37 PM Group Number: 1116813

-		Surrogate (	Quality Control	
5508730	90	84	83	81
Blank	90	84	82	79
LCS	89	85	85	85
LCSD	88	84	85	86
MS	89	78	86	85
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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	Consultant Phone #:	510-4	20-33	51	Fax #	≠: <u>5∖</u>	0-4	+20-9	0			mber of (	260	SR SR	С <sup>2</sup>		+	21	à	à				8021 MTBE Co	nfirmation	
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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

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N.D.	none detected	BMQL	Below Minimum Quantitation Level
	International Units		NOSt Probable Nulliber
	international Units	CP Units	cobait-chioroplatinate 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)
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.
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- W Post digestion spike out of control limits
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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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(916) 985-1000 .FAX (916) 985-1020 Hours 8:00 A.M to 6:00 P.M. Pacific



### 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
PHONE:	510-420-3351	<b>P.O.</b> #	
FAX:	510-420-9170	PROJECT #	307233
DATE RECEIVED:	03/12/2008	CONTACT:	Kyle Vagadori
DATE COMPLETED:	03/17/2008	continen	Kyle vagadoli

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
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
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
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

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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.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br 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

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

## **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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(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

	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

	Rpt. Limit	Amount	Rpt. Limit	Amount	
Compound	(ppbv)	(ppbv)	(uG/m3)	(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

	Rpt. Limit	Amount	Rpt. Limit	Amount	
Compound	(ppbv)	(ppbv)	(uG/m3)	(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 (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (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-15 GC/MS FULL SCAN

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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	89	70-130	
1,2-Dichloroethane-d4	77	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 FULL SCAN

File Name: Dil. Factor:	5031418 2.02	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 09:21 PM		3/10/08 /14/08 09:21 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	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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	94	70-130	
1,2-Dichloroethane-d4	82	70-130	
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: 3/10/08 Date of Analysis: 3/14/08 09:54 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	4.8	Not Detected	20	Not Detected
tert-Butyl alcohol	12	Not Detected	37	Not Detected
Isopropyl 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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	91	70-130	
1,2-Dichloroethane-d4	82	70-130	
4-Bromofluorobenzene	92	70-130	



Client Sample ID: VP2-5

Lab ID#: 0803250A-03A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File 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

		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
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	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

		Method
Surrogates	%Recovery	Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	79	70-130
4-Bromofluorobenzene	92	70-130



Client Sample ID: VP2-10

Lab ID#: 0803250A-05A

### MODIFIED EPA 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

		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 FULL SCAN

File Name: Dil. Factor:	5031423 2.53		Date of Collection: Date of Analysis: 3	3/10/08 /15/08 12:05 AM
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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	90	70-130	
1,2-Dichloroethane-d4	81	70-130	
4-Bromofluorobenzene	89	70-130	



Client Sample ID: VP3-10

Lab ID#: 0803250A-07A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031424 2.47		Date of Collection: Date of Analysis: 3	3/10/08 5/15/08 12:38 AM
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	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,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

		Method
Surrogates	%Recovery	Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	82	70-130
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: Date of Analysis: 3	NA 5/14/08 11:50 AM
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 Applicable**

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	88	70-130	
1,2-Dichloroethane-d4	80	70-130	
4-Bromofluorobenzene	92	70-130	



**Client Sample ID: CCV** 

Lab ID#: 0803250A-09A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031402 1.00	Date of Collection: NA Date of Analysis: 3/14/08 09:51 AM
Compound		%Recoverv
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		128

#### **Container Type: NA - Not Applicable**

		Method
Surrogates	%Recovery	Limits
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: Dil. Factor:	5031403 1.00	Date of Collection: NA 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
m,p-Xylene		104
o-Xylene		107
1,2-Dichloroethane		86
1,2-Dibromoethane (EDB)		102
Naphthalene		117

#### **Container Type: NA - Not Applicable**

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	98	70-130	
1,2-Dichloroethane-d4	82	70-130	
4-Bromofluorobenzene	98	70-130	



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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020 Hours 8:00 A.M to 6:00 P.M. Pacific



#### 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
	Emeryville, CA 94608		Emeryville, CA 94608
PHONE:	510-420-3351	<b>P.O.</b> #	
FAX:	510-420-9170	PROJECT #	307233
DATE RECEIVED:	03/12/2008	CONTACT	Kyle Vagadori
DATE COMPLETED:	03/17/2008	contact.	

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	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

Sinda d. Fruman

DATE: <u>03/17/08</u>

Laboratory Director

CERTIFIED BY:

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 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	ТО-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	Rot. 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 (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (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				
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	62	110	250	450
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	031416 Date of Collection: 3/10/08 2.02 Date of Analysis: 3/14/08 01:2		3/10/08 14/08 01:27 PM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	50	230	210	940
Container Type: 1 Liter Summa	Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		83		75-150



Client Sample ID: VP1-10

Lab ID#: 0803250B-02A

File Name: Dil. Factor:	6031417 2.42	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 01:56 PM		3/10/08 8/14/08 01:56 PM
Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	60	Not Detected	250	Not Detected
Container Type: 1 Liter Summa	a Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



# Client Sample ID: VP2-5 Lab ID#: 0803250B-03A

File Name: Dil. Factor:	6031418 2.53	031418 Date of Collection: 3/10/08 2.53 Date of Analysis: 3/14/08 02:27		5/10/08 14/08 02:27 PM
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	63	120	260	500
Container Type: 1 Liter Summa	Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



# Client Sample ID: VP2-5 Duplicate Lab ID#: 0803250B-04A

File Name: Dil. Factor:	6031419 D 2.53 D		Date of Collection: Date of Analysis: 3	3/10/08 3/14/08 02:57 PM	
Compound	Rot. 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)					
Surrogates		%Recovery		Limits	
Fluorobenzene (FID)		84		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		8/10/08 14/08 03:29 PM
Compound	Rɒt. 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 Date of Collection: 2.53 Date of Analysis:		3/10/08 3/14/08 03:59 PM	
Compound	Røt. 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)			
Surrogates		%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		3/10/08 3/14/08 04:29 PM
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	62	Not Detected	250	Not Detected
Container Type: 1 Liter Summa	a Canister (100% Certified)			Mathad
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



# Client Sample ID: Lab Blank Lab ID#: 0803250B-08A

File Name: Dil. Factor:	6031406 Date of Collection: NA 1.00 Date of Analysis: 3/14/08 08:05 AI		VA /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 Surrogates		%Recovery		Method Limits
Fluorobenzene (FID)		84		75-150



Client Sample ID: LCS

Lab ID#: 0803250B-09A

File Name: Dil. Factor:	6031427 1.00	Date of Collection: NA Date of Analysis: 3/14/08 07:14 PM	
Compound			%Recovery
TPH (Gasoline Range)			90
Container Type: NA - Not Applica	ble		
Surrogates		%Recovery	Method Limits
Fluorobenzene (FID)		111	75-150



# 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).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020 Hours 8:00 A.M to 6:00 P.M. Pacific



#### WORK ORDER #: 0803250C

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
PHONE:	510-420-3351	<b>P.O.</b> #	
FAX:	510-420-9170	PROJECT #	307233
DATE RECEIVED:	03/12/2008	CONTACT	Kyle Vagadori
DATE COMPLETED:	03/17/2008	connen	

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
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
09B	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: <u>03/17/08</u>

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 due 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



# 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	

#### 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

	Rpt. Limit	Amount (%)	
Compound	(%)		
Oxygen	0.24	20	
Carbon Dioxide	0.024	1.0	

#### **Client Sample ID: VP2-5**

#### Lab ID#: 0803250C-03A

	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	(%)	(%)	
Oxygen	0.25	17	
Carbon Dioxide	0.025	2.0	



# 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	(%)	(%)	
Oxygen	0.25	17	
Carbon Dioxide	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: 3/10/08 Date of Analysis: 3/17/08 03:01 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		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		Date of Collection: 3/10/08 Date of Analysis: 3/17/08 03:27 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.41	38
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 02:53 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		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: Dil. Factor:	9031421b 2.47	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 02:32 PM	
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		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	D D	ate of Collection: 3/10/08 ate 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	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 01:49 PM	
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:	9031404b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/14/08 05:00 AM	
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Carbon Dioxide		0.010	Not Detected



# Client Sample ID: Lab Blank

Lab ID#: 0803250C-08B

# NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031403b 1.00	Date Date	of Collection: NA of Analysis: 3/14/08 04:02 AM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.050	Not Detected



# Client Sample ID: Lab Blank Lab ID#: 0803250C-08C

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9031728b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/17/08 02:37 PM	
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Carbon Dioxide		0.010	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
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.050	Not Detected



Client Sample ID: LCS

Lab ID#: 0803250C-09A

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031427b 1.00	Date of Collection: NA Date of Analysis: 3/14/08 05:08 PM
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: Dil. Factor:	9031731b 1.00	Date of Collection: NA Date of Analysis: 3/17/08 03:53 PM
Compound		%Recovery
Oxygen		100
Carbon Dioxide		100
Helium		106



11/24/2008 Ms. Charlotte Evans Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville CA 94608

Project Name: Project #: 30-7233

Dear Ms. Charlotte Evans

The following report includes the data for the above referenced project for sample(s) received on 11/12/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kga Vych

Kyle Vagadori Project Manager



# WORK ORDER #: 0811261B

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
PHONE:	510-420-3351	<b>P.O.</b> #	312264
FAX:	510-420-9170	PROJECT #	30-7233
DATE RECEIVED:	11/12/2008	CONTACT	Kyle Vagadori
DATE COMPLETED:	11/24/2008	contact.	ityie vagadon

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	VPI-5	Modified TO-3	5.0 "Hg	15 psi
02A	VPI-10	Modified TO-3	4.0 "Hg	15 psi
03A	VPI-10 Duplicate	Modified TO-3	4.5 "Hg	15 psi
03AA	VPI-10 Duplicate Lab Duplicate	Modified TO-3	4.5 "Hg	15 psi
04A	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA

Sinda d. Fruman

DATE: <u>11/24/08</u>

Laboratory Director

CERTIFIED BY:

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09

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 TO-3 Conestoga-Rovers Associates (CRA) Workorder# 0811261B

Three 1 Liter Summa Canister (100% Certified) samples were received on November 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	ТО-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: VPI-5

#### Lab ID#: 0811261B-01A

No Detections Were Found.

#### **Client Sample ID: VPI-10**

Lab ID#: 0811261B-02A				
Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	58	64	240	260
Client Sample ID: VPI-10 Duplicat	e			
Lab ID#: 0811261B-03A				
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
TPH (Gasoline Range)	60	66	240	270
Client Sample ID: VPI-10 Duplicate	e Lab Duplicate			
Lab ID#: 0811261B-03AA				
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
TPH (Gasoline Range)	60	66	240	270



# Client Sample ID: VPI-5

# Lab ID#: 0811261B-01A

# MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d111507 2.42		Date of Collection: 11/7/08 Date of Analysis: 11/15/08 01:50 PM			
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)		
PH (Gasoline Range) 60		Not Detected	250	Not Detected		
Container Type: 1 Liter Summa	a Canister (100% Certified)	)		Method		
Surrogates		%Recovery		Limits		
Fluorobenzene (FID)		84		75-150		



# Client Sample ID: VPI-10 Lab ID#: 0811261B-02A

# MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d111508 2.33		Date of Collection: 11/7/08 Date of Analysis: 11/15/08 02:33 F		
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
TPH (Gasoline Range)	58	64	240	260	
Container Type: 1 Liter Summa	Canister (100% Certified)			Method	
Surrogates		%Recovery		Limits	
Fluorobenzene (FID)		91		75-150	



# Client Sample ID: VPI-10 Duplicate Lab ID#: 0811261B-03A MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d111509 2.38		Date of Collection: 11/7/08 Date of Analysis: 11/15/08 03:14 P			
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)		
TPH (Gasoline Range)	60	66	240	270		
Container Type: 1 Liter Summa Canister (100% Certified) Metho						
Surrogates		%Recovery		Limits		
Fluorobenzene (FID)		90		75-150		



# Client Sample ID: VPI-10 Duplicate Lab Duplicate

# Lab ID#: 0811261B-03AA

#### MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d111510	Date of Collection: 11/7/08			
Dil. Factor:	2.38	Date of Analysis: 11/15/08 03:5			
Compound	Rɒt. Limit	Amount	Rpt. Limit	Amount	
	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)	
TPH (Gasoline Range)	60	66	240	270	
Container Type: 1 Liter Summa	a Canister (100% Certified)			Method	

Surrogates	%Recovery	Limits
Fluorobenzene (FID)	86	75-150



# Client Sample ID: Lab Blank Lab ID#: 0811261B-04A

# MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d111502 1.00		Date of Collection: NA Date of Analysis: 11/15/08 10:04			
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				Method		
Surrogates		%Recovery		Limits		
Fluorobenzene (FID)		83		75-150		



Client Sample ID: LCS

Lab ID#: 0811261B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name: Dil. Factor:	d111511 1.00		Date of Collection: NA Date of Analysis: 11/15/08 04:31 PM
Compound			%Recovery
TPH (Gasoline Range)			87
Container Type: NA - Not Applicable			Method
Surrogates		%Recovery	Limits
Fluorobenzene (FID)		102	75-150



11/25/2008 Ms. Charlotte Evans Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville CA 94608

Project Name: Project #: 30-7233

Dear Ms. Charlotte Evans

The following report includes the data for the above referenced project for sample(s) received on 11/12/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kga Vych

Kyle Vagadori Project Manager



# WORK ORDER #: 0811261C

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
PHONE:	510-420-3351	<b>P.O.</b> #	312264
FAX:	510-420-9170	PROJECT #	30-7233
DATE RECEIVED:	11/12/2008	CONTACT	Kyle Vagadori
DATE COMPLETED:	11/25/2008	connen.	Ryle Vagadoll

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	PRESSURE
01A	VPI-5	Modified ASTM D-1946	5.0 "Hg	15 psi
01AA	VPI-5 Lab Duplicate	Modified ASTM D-1946	5.0 "Hg	15 psi
02A	VPI-10	Modified ASTM D-1946	4.0 "Hg	15 psi
03A	VPI-10 Duplicate	Modified ASTM D-1946	4.5 "Hg	15 psi
04A	Lab Blank	Modified ASTM D-1946	NA	NA
04B	Lab Blank	Modified ASTM D-1946	NA	NA
05A	LCS	Modified ASTM D-1946	NA	NA

Sinda d. Fruman

DATE: \_\_\_\_\_

Laboratory Director

CERTIFIED BY:

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09

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

Page 1 of 11



# LABORATORY NARRATIVE Modified ASTM D-1946 Conestoga-Rovers Associates (CRA) Workorder# 0811261C

Three 1 Liter Summa Canister (100% Certified) samples were received on November 12, 2008. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or 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.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method 1	modifications	taken to	run	these	samples	are	summarized	in	the	table	below.	Specific	project
requireme	ents may over-	-ride the	ATL	modifi	ications.								

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 due 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



# Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

#### Client Sample ID: VPI-5

#### Lab ID#: 0811261C-01A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.24	19
Nitrogen	0.24	78
Carbon Dioxide	0.024	2.5

### Client Sample ID: VPI-5 Lab Duplicate

### Lab ID#: 0811261C-01AA

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.24	19
Nitrogen	0.24	78
Carbon Dioxide	0.024	2.5

#### **Client Sample ID: VPI-10**

#### Lab ID#: 0811261C-02A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.23	19
Nitrogen	0.23	79
Carbon Dioxide	0.023	2.1

#### Client Sample ID: VPI-10 Duplicate

#### Lab ID#: 0811261C-03A

	Rpt. Limit	Amount
Compound	(%)	(%)
Oxygen	0.24	19
Nitrogen	0.24	79
Carbon Dioxide	0.024	2.1



# Client Sample ID: VPI-5

Lab ID#: 0811261C-01A

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9111424 2.42		Date of Collection: 11/7/08 Date of Analysis: 11/14/08 06:08 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.24	19
Nitrogen		0.24	78
Carbon Dioxide		0.024	2.5
Methane		0.00024	Not Detected
Helium		0.12	Not Detected



# Client Sample ID: VPI-5 Lab Duplicate Lab ID#: 0811261C-01AA

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9111425 2.42		Date of Collection: 11/7/08 Date of Analysis: 11/14/08 06:46 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.24	19
Nitrogen		0.24	78
Carbon Dioxide		0.024	2.5
Methane		0.00024	Not Detected
Helium		0.12	Not Detected



# Client Sample ID: VPI-10

Lab ID#: 0811261C-02A

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9111426 2.33		Date of Collection: 11/7/08 Date of Analysis: 11/14/08 07:11 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.23	19
Nitrogen		0.23	79
Carbon Dioxide		0.023	2.1
Methane		0.00023	Not Detected
Helium		0.12	Not Detected



# Client Sample ID: VPI-10 Duplicate Lab ID#: 0811261C-03A

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9111427 2.38		Date of Collection: 11/7/08 Date of Analysis: 11/14/08 08:11 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.24	19
Nitrogen		0.24	79
Carbon Dioxide		0.024	2.1
Methane		0.00024	Not Detected
Helium		0.12	Not Detected



# Client Sample ID: Lab Blank

Lab ID#: 0811261C-04A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9111404 1.00		Date of Collection: NA Date of Analysis: 11/14/08 09:18 AM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Nitrogen		0.10	Not Detected
Carbon Dioxide		0.010	Not Detected
Methane		0.00010	Not Detected

Container Type: NA - Not Applicable



#### Client Sample ID: Lab Blank

Lab ID#: 0811261C-04B

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9111403b 1.00		Date of Collection: NA Date of Analysis: 11/14/08 08:48 AM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.050	Not Detected



Client Sample ID: LCS

Lab ID#: 0811261C-05A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9111428 1.00	Date of Collection: NA Date of Analysis: 11/14/08 08:57 PM
Compound		%Recovery
Oxygen		100
Nitrogen		100
Carbon Dioxide		100
Methane		101
Helium		104



11/25/2008 Ms. Charlotte Evans Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville CA 94608

Project Name: Project #: 30-7233

Dear Ms. Charlotte Evans

The following report includes the data for the above referenced project for sample(s) received on 11/12/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kga Vych

Kyle Vagadori Project Manager



# Sample Transportation Notice

Relinguishing 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 harmloss, defend, and indemnify Air Toxics Limited against any plaim, demand, or action, of any kind, related to the collection, handling, or shipping of samples, D.O.T. Hotline (800) 467-4922

#### 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 985-1020

Page \_\_\_\_ of \_\_\_

Project Manager Charlotte Evans					Project Info:			Lab Use Only		
Collected by: (Print and Sign) Charlotte Evans (Epuno)							Time:	Pressurized by:		
Company CRA Emai CEVANSECYAWOY 12.000				2~1027			U Normal	Date:		
Address 5200 Hollis St City Emony Ville, State CA_ Zip 941018				Project #			Rush	Pressurization Gas:		
Phono 510-420-3351 Fax 510-420-9170				Project Name 30 1233			specify	:.	N <sub>2</sub> √ H€	• · ·
	Date			Time			Canis	ter Pressure/Vacuum		
Lab I.D.	Field Sample I.D. (Location)	Can #	of Collection	of Collection	Analyses Requested		Initial	F.nal	Receipt	·Final
DIA	VP1-5	24393	03/10/08	12:26	For all:		-21.5	- 5	.'	
OSA V	VP1-10	341041	03/10/08	12:55	TPHA	BATD-3	-29	-6	·	· · ·
BA .	<u>VP2-5</u>	9398	03/10/08	14:20	BTEX, M	HE DIPE	-29.5	~6i	· ·	
OHA .	YP2-5 Duplicate	9337	03/10/08	14:20	TAMEJ	BA BTBE	-30	-5.5		
OSA N	VP2-10	9309	0310 08	14:49	12-DA	EDB, nadoth	atene -29	-5		
06A 1	VP3-5	3315	03/10/08	15:20	WW TO-	15	-29	-5		
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Relinquishe	d by: (signature) Date/Time	Date/Time		Notes:				<u> </u>		
UENONNO 0310108 18:10 ATL 03-12-08 0850										
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Relinquished by: (signature) Date/Time Received by: (signature) D				Date/Time						
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#### 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 l'ability 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 collection, handling, or shipping of semples, D.O.T. Hot indicates (900), 437-4922

### 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 965-1020

Page 1\_of 1\_

Project Manager CHAPLOTTE EVANS					Project Info:			Turn Around Time:		Lab Use Only Pressurized by:			
Collected by: (Print and Sign) CHARLOTTE EVANS (CRIMOS					P.O. # 312264			Normai		Date:			
Company < KA Email <u>CENTRACE CONTRACTOR CONT</u>				Project # 30 - 7233			I Rush		Pressurization Gas:				
Address $\underline{400}$ Holy $\underline{57}$ , City $\underline{60}$ $\underline{610}$ $\underline{510}$ $\underline{610}$ 6				Project Name 30 - 7233			specify		N <sub>z</sub> He				
;	Date			Time			Canister Pressure/Vacuum						
Lab I.D.	Field Sam	ple I.D. (Location)	Can #	of (	Collection	of Collection	Analyses Requested			initial	Final	Receipt	Final (P <sup>RI</sup> )
OIA	VPI-5	•	1479	11	108	1431	FOR ALL	•		2.5	-5		
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Analysis Request/Subconfidening Form

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bmit report to: Halley algican Ext: 12	49	Dept. # :	Jev . Am	Courier:

ĺ	Subcontractor:		LLI P.O. # :			Date:	TAT	
	Contact:	Ext: 740	Dept.	#:	>	Courier:	FEDEX	
$\checkmark$	Submit report to: $\underline{-12300}$	Number/size of containers (total)			Analyse		Remarks: 52722(23	Collected 2/1/000
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	Sample relinquished/by: / Date College - 7-	Time Sar	nple received b	v: > 77 :	5 2-2	9 <u>ate Time</u> 8-08 /00	Reason for transfer:	



Relinquishing signature on this document indicates that sample is being shipped in compliance with 180 BLUE RAVINE ROAD, SUITE B 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 collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

## FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 985-1020

	1	
Page _	l of	

Project Ma	roject Manager Charlotte Evans				Project Info:			ound	Lab Use Only		
Collected I	by: (Print and Sign) Charlotte Evan	s CEAR	WO	PO #					Pressi	urized by:	
Company_	<u>CRA</u> EmailC	evansecra	world.com	F.U. #	201222		Normal		Date:		
Address 5	ADD Hollis St. city Emonyvill	<u>C</u> State	zip94608	Project #			KI Rush		Pressu	rization (	Gas:
Phone	510-420-3351 Fax 511	1-420-91-	1 <u>D</u>	Project Nam	<u>e 307233</u>		specif	ý		N <sub>2</sub> He	Э
			Date	Time			C	Canist	er Pres	sure/Vac	uum
Lab I.D.	Field Sample I.D. (Location)	Can #	of Collection	of Collection	Analyses	s Requested	Ir	nitial	Final	Receipt	Final (psi)
DIA	VP1-5	24393	03/10/08	12:26	Foralli			29.5	-5		
Q2A	VPI-ID	34641	03/10/08	12:55	TPHA W	TD-3		29	-5		
OBA	VP2-5	9398	03/10/08	14:20	BTEX, MH	SE DIPE	/	29.5	-6		
OHA	VP2-5 Duplicate	9331	03/10/08	14:20	TAME, TB	A ETBE		50 -	-5.5		
05A	VP2-10	9309	03/10/08	14:49	1:2-DCA ET	DB, naphth	alene -	291-	-5		
06A	VP3-5	3315	03/10/08	15:20	BU TO-15	<u>〕</u>		29	-5		
07A	VP3-10	35649	03/10/08	15:47	On COn CH	, heriven		29 -	5		
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Belinquish	$\frac{\nabla V \nabla O}{\partial \partial $	Beceived by	ATL 03-	-12-08	0850						
r tonnquist	to by (signature) bate time	Ineceived b	(Signature)								
Relinquish	ed by: (signature) Date/Time	Received by	/: (signature)	Date/Time							
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Lab	Shipper Name	<b>L#</b>	Temp ('	°C)	ondition	Custody Se	als Intact	2	Work C	)rder #	
Use Only	-odex		me	Gar	d	Yes No	None	1	08	0325	50



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 l'ability 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 collection, handling, or shipping of semples, D.O.T. Hot indicates (900), 437-4922

#### 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630-4719 (916) 985-1000 FAX (916) 965-1020

Page 1\_of 1\_

Project Ma	oject Marager CHAPLOTTE EVANS					Project Info	o:		Turn Around		Lab Use Only Pressurized by:		
Collected b	y: (Print and Sign) _	CHAPLOTTE EV	uns ()Fr	M	<u>76</u>	P.O. # 31	2264			ormai	Date:		
Company_	<pre><ka< pre=""></ka<></pre>	EmailEmail	<u>(E)/2005</u>	Can Zo	<u>rarlal (</u> gr Giul ar	Project #	30-7233		- 	ısh	Press	urization (	Gas: 1
Address <u>Y</u> Phone 5	Phone 50-420-3351Fax 510-420-9170			Project Nam	<u>.</u> 30-723	3		ecity	· .	N <sub>2</sub> H	е		
;					Date	Тіте				Canis	ter Pres	sure/Vac	:uum
Lab I.D.	Field Sam	ple I.D. (Location)	Can #	of (	Collection	of Collection	Analyse	s Requested		initial	Final	Receipt	Final (P <sup>RI</sup> )
OIA	VPI-5	•	1479	11	108	1431	FOR ALL	•		25	-5		
02A	VP1-10		36505	រេ	17/08	1507	TPHg by	TO-3 (	<u>C5-C</u>		-4		
03A	VPI-10	Duplicate	30820	ÌÌ	8017	1507	FULL SCA	N 70-15	-	-30		A	
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Relinguishing 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 harmloss, defend, and indemnify Air Toxics Limited against any plaim, demand, or action, of any kind, related to the collection, handling, or shipping of samples, D.O.T. Hotline (800) 467-4922

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Page \_\_\_\_ of \_\_\_

Project Man	<sub>lage:</sub> <u>Char</u> iotte Ev <u>ans</u>			Project Info	o:		Turn Around	Lab Use	Only	:
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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 l'ability 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 collection, handling, or shipping of semples, D.O.T. Hot indicates (900), 437-4922

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Page 1\_of 1\_

Project Ma	oject Marager CHAPLOTTE EVANS					Project Info	o:		Turn Around		Lab Use Only Pressurized by:		
Collected b	y: (Print and Sign) _	CHAPLOTTE EV	uns ()Fr	M	<u>76</u>	P.O. # 31	2264			ormai	Date:		
Company_	<pre><ka< pre=""></ka<></pre>	EmailEmail	<u>(E)/2005</u>	Can Zo	<u>rarlal (</u> gr Giul ar	Project #	30-7233		- 	ısh	Press	urization (	Gas: 1
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### WORK ORDER #: 0811261A

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
PHONE:	510-420-3351	<b>P.O.</b> #	312264
FAX:	510-420-9170	PROJECT #	30-7233
DATE RECEIVED:	11/12/2008	CONTACT	Kyle Vagadori
DATE COMPLETED:	11/24/2008	connen.	Ryle Vagadoll

			RECEIPT	FINAL
FRACTION #	NAME	TEST	VAC./PRES.	<b>PRESSURE</b>
01A	VPI-5	Modified TO-15	5.0 "Hg	15 psi
02A	VPI-10	Modified TO-15	4.0 "Hg	15 psi
03A	VPI-10 Duplicate	Modified TO-15	4.5 "Hg	15 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA

Sinda d. Fruman

DATE: <u>11/25/08</u>

Laboratory Director

CERTIFIED BY:

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act, Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09

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 TO-15 Conestoga-Rovers Associates (CRA) Workorder# 0811261A

Three 1 Liter Summa Canister (100% Certified) samples were received on November 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</td <td><!--= 30% Difference; Compounds exceeding this criterion<br-->and associated data are flagged and narrated.</td>	= 30% Difference; Compounds exceeding this criterion<br and associated data are flagged and narrated.
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 no 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: VPI-5

#### Lab ID#: 0811261A-01A

No Detections Were Found.

#### Client Sample ID: VPI-10

#### Lab ID#: 0811261A-02A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Chloroethane	1.2	3.4	3.1	8.9
m,p-Xylene	1.2	1.5	5.0	6.5
Acetone	4.7	12	11	29
Carbon Disulfide	1.2	4.4	3.6	14
2-Butanone (Methyl Ethyl Ketone)	1.2	2.9	3.4	8.5
Ethanol	4.7	8.0	8.8	15

#### **Client Sample ID: VPI-10 Duplicate**

#### Lab ID#: 0811261A-03A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
2-Butanone (Methyl Ethyl Ketone)	1.2	11	3.5	33
Tetrahydrofuran	1.2	5.2	3.5	15



Client Sample ID: VPI-5

Lab ID#: 0811261A-01A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5112121 2.42		Date of Collection: Date of Analvsis: 1	11/7/08 1/22/08 12:06 AM
	Rnt Limit	Amount	Rnt I imit	
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	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
Styrene	1.2	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected



Client Sample ID: VPI-5

Lab ID#: 0811261A-01A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5112121 2.42		Date of Collection: 1 Date of Analysis: 11/	1/7/08 /22/08 12:06 AM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.2	Not Detected	5.0	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
Chloromethane	4.8	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Acetone	4.8	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	Not Detected	3.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
tert-Butyl alcohol	4.8	Not Detected	15	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected

		Method
Surrogates	%Recovery	Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	96	70-130



# Client Sample ID: VPI-10

Lab ID#: 0811261A-02A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5112116		Date of Collection:	11/7/08
	2.33	•		1/2 1/UO UO:43 MW
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	3.4	3.1	8.9
Freon 11	1.2	Not Detected	6.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Freon 113	1.2	Not Detected	8.9	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	1.5	5.0	6.5
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected



## Client Sample ID: VPI-10

Lab ID#: 0811261A-02A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5112116 2.33		Date of Collection: 1 Date of Analysis: 11	1/7/08 /21/08 08:43 PM
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.2	Not Detected	4.8	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Acetone	4.7	12	11	29
Carbon Disulfide	1.2	4.4	3.6	14
2-Propanol	4.7	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	2.9	3.4	8.5
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
Ethanol	4.7	8.0	8.8	15
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
tert-Butyl alcohol	4.7	Not Detected	14	Not Detected
Ethyl-tert-butyl ether	4.7	Not Detected	19	Not Detected
Isopropyl ether	4.7	Not Detected	19	Not Detected
tert-Amyl methyl ether	4.7	Not Detected	19	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Naphthalene	4.7	Not Detected	24	Not Detected

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	98	70-130	
1,2-Dichloroethane-d4	104	70-130	
4-Bromofluorobenzene	96	70-130	



## Client Sample ID: VPI-10 Duplicate Lab ID#: 0811261A-03A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5112117	Date of Collection: 11/7/08		
Dil. Factor:	2.38		Date of Analysis: 1	1/21/08 09:24 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(uG/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	1.2	Not Detected	4.6	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	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
Styrene	1.2	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected



## Client Sample ID: VPI-10 Duplicate Lab ID#: 0811261A-03A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil Factor:	5112117 2 38		Date of Collection: 1	1/7/08
Compound	Rpt. Limit	Amount	Rpt. Limit	Amount
	(ppbv)		(00/113)	
Heptane	1.2	Not Detected	4.9	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
Chloromethane	4.8	Not Detected	9.8	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Acetone	4.8	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.7	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	11	3.5	33
Tetrahydrofuran	1.2	5.2	3.5	15
1,4-Dioxane	4.8	Not Detected	17	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
tert-Butyl alcohol	4.8	Not Detected	14	Not Detected
Ethyl-tert-butyl ether	4.8	Not Detected	20	Not Detected
Isopropyl ether	4.8	Not Detected	20	Not Detected
tert-Amyl methyl ether	4.8	Not Detected	20	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected

		Method Limits	
Surrogates	%Recovery		
Toluene-d8	98	70-130	
1,2-Dichloroethane-d4	105	70-130	
4-Bromofluorobenzene	95	70-130	



# Client Sample ID: Lab Blank

Lab ID#: 0811261A-04A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5112105a 1 00		Date of Collection: N	NA 1/21/08 10:51 AM
		Ameunt	Dat 1 imit	Americat
Compound	(ppby)	(ppby)	(uG/m3)	Amount (uG/m3)
Freen 12	0.50	Not Detected	25	Not Detected
Freen 11/	0.50	Not Detected	2.5	Not Detected
Vipyl Chlorido	0.50	Not Detected	13	Not Detected
Rememothene	0.50	Not Detected	1.5	Not Detected
Chloroothono	0.50	Not Detected	1.3	Not Detected
Eroop 11	0.50	Not Detected	1.5	Not Detected
1 1 Disblarasthana	0.50	Not Detected	2.0	Not Detected
r, i-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113 Mathulana Chlarida	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	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
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected



Client Sample ID: Lab Blank

Lab ID#: 0811261A-04A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5112105a 1.00		Date of Collection: NA Date of Analysis: 11	A /21/08 10:51 AM
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
tert-Butyl alcohol	2.0	Not Detected	6.1	Not Detected
Ethyl-tert-butyl ether	2.0	Not Detected	8.4	Not Detected
Isopropyl ether	2.0	Not Detected	8.4	Not Detected
tert-Amyl methyl ether	2.0	Not Detected	8.4	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

### Container Type: NA - Not Applicable

		Method Limits	
Surrogates	%Recovery		
Toluene-d8	98	70-130	
1,2-Dichloroethane-d4	103	70-130	
4-Bromofluorobenzene	96	70-130	



Client Sample ID: CCV

Lab ID#: 0811261A-05A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5112102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/21/08 08:47 AM
Compound		%Recovery
Freon 12		110
Freon 114		106
Vinyl Chloride		105
Bromomethane		116
Chloroethane		121
Freon 11		112
1,1-Dichloroethene		105
Freon 113		100
Methylene Chloride		114
1,1-Dichloroethane		103
cis-1,2-Dichloroethene		104
Chloroform		94
1,1,1-Trichloroethane		101
Carbon Tetrachloride		104
Benzene		94
1,2-Dichloroethane		107
Trichloroethene		103
1,2-Dichloropropane		106
cis-1,3-Dichloropropene		104
Toluene		103
trans-1,3-Dichloropropene		105
1,1,2-Trichloroethane		102
Tetrachloroethene		103
1,2-Dibromoethane (EDB)		97
Chlorobenzene		103
Ethyl Benzene		103
m,p-Xylene		104
o-Xylene		103
Styrene		94
1,1,2,2-Tetrachloroethane		105
1,3,5-Trimethylbenzene		92
1,2,4-Trimethylbenzene		95
1,3-Dichlorobenzene		98
1,4-Dichlorobenzene		98
alpha-Chlorotoluene		105
1,2-Dichlorobenzene		94
1,3-Butadiene		98
Hexane		106
Cyclohexane		100



**Client Sample ID: CCV** 

Lab ID#: 0811261A-05A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5112102 1.00	Date of Collection: NA Date of Analysis: 11/21/08 08:47 AM
Compound		%Recovery
Heptane		103
Bromodichloromethane		106
Dibromochloromethane		105
Cumene		98
Propylbenzene		110
Chloromethane		112
1,2,4-Trichlorobenzene		94
Hexachlorobutadiene		92
Acetone		103
Carbon Disulfide		103
2-Propanol		104
trans-1,2-Dichloroethene		100
2-Butanone (Methyl Ethyl Ketone)		98
Tetrahydrofuran		109
1,4-Dioxane		96
4-Methyl-2-pentanone		104
2-Hexanone		101
Bromoform		107
4-Ethyltoluene		108
Ethanol		102
Methyl tert-butyl ether		114
tert-Butyl alcohol		101
Ethyl-tert-butyl ether		119
Isopropyl ether		119
tert-Amyl methyl ether		113
3-Chloropropene		100
2,2,4-Trimethylpentane		104
Naphthalene		92

#### Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	101	70-130	
1,2-Dichloroethane-d4	104	70-130	
4-Bromofluorobenzene	97	70-130	



Client Sample ID: LCS

Lab ID#: 0811261A-06A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5112103	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/21/08 09:28 AM
Compound		%Recovery
Freon 12		84
Freon 114		84
Vinyl Chloride		83
Bromomethane		90
Chloroethane		94
Freon 11		91
1,1-Dichloroethene		100
Freon 113		92
Methylene Chloride		106
1,1-Dichloroethane		91
cis-1,2-Dichloroethene		91
Chloroform		81
1,1,1-Trichloroethane		83
Carbon Tetrachloride		84
Benzene		83
1,2-Dichloroethane		96
Trichloroethene		97
1,2-Dichloropropane		91
cis-1,3-Dichloropropene		90
Toluene		93
trans-1,3-Dichloropropene		92
1,1,2-Trichloroethane		89
Tetrachloroethene		92
1,2-Dibromoethane (EDB)		84
Chlorobenzene		90
Ethyl Benzene		89
m,p-Xylene		89
o-Xylene		90
Styrene		82
1,1,2,2-Tetrachloroethane		86
1,3,5-Trimethylbenzene		80
1,2,4-Trimethylbenzene		82
1,3-Dichlorobenzene		86
1,4-Dichlorobenzene		85
alpha-Chlorotoluene		92
1,2-Dichlorobenzene		82
1,3-Butadiene		80
Hexane		85
Cyclohexane		81



Client Sample ID: LCS

Lab ID#: 0811261A-06A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5112103 1.00	Date of Collection: NA Date of Analysis: 11/21/08.09:28 AM
Compound		%Recovery
Heptane		90
Bromodichloromethane		93
Dibromochloromethane		93
Cumene		88
Propylbenzene		97
Chloromethane		87
1,2,4-Trichlorobenzene		87
Hexachlorobutadiene		80
Acetone		90
Carbon Disulfide		88
2-Propanol		91
trans-1,2-Dichloroethene		88
2-Butanone (Methyl Ethyl Ketone)		84
Tetrahydrofuran		89
1,4-Dioxane		82
4-Methyl-2-pentanone		90
2-Hexanone		88
Bromoform		95
4-Ethyltoluene		94
Ethanol		81
Methyl tert-butyl ether		89
tert-Butyl alcohol		64
Ethyl-tert-butyl ether		Not Spiked
Isopropyl ether		Not Spiked
tert-Amyl methyl ether		Not Spiked
3-Chloropropene		88
2,2,4-Trimethylpentane		85
Naphthalene		88

#### Container Type: NA - Not Applicable

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	99	70-130	
1,2-Dichloroethane-d4	102	70-130	
4-Bromofluorobenzene	97	70-130	



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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020 Hours 8:00 A.M to 6:00 P.M. Pacific



### 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
PHONE:	510-420-3351	<b>P.O.</b> #	
FAX:	510-420-9170	PROJECT #	307233
DATE RECEIVED:	03/12/2008	CONTACT:	Kyle Vagadori
DATE COMPLETED:	03/17/2008	continen	Kyle vagadoli

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
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
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
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

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### 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.

Requirement	TO-15	ATL Modifications
Daily CCV	+- 30% Difference	= 30% Difference with two allowed out up to </=40%.;<br 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

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

### **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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(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

	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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(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

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(uG/m3)	(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 (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (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-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031417 2.02	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 08:49 PM		3/10/08 5/14/08 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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	89	70-130	
1,2-Dichloroethane-d4	77	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 FULL SCAN

File Name: Dil. Factor:	5031418 2.02	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 09:21 PM		3/10/08 /14/08 09:21 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	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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	94	70-130	
1,2-Dichloroethane-d4	82	70-130	
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: 3/10/08 Date of Analysis: 3/14/08 09:54 PM		3/10/08 /14/08 09:54 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	4.8	Not Detected	20	Not Detected
tert-Butyl alcohol	12	Not Detected	37	Not Detected
Isopropyl 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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	91	70-130	
1,2-Dichloroethane-d4	82	70-130	
4-Bromofluorobenzene	92	70-130	



Client Sample ID: VP2-5

Lab ID#: 0803250A-03A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031420 2.53	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 10:27 PM		3/10/08 8/14/08 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

		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		3/10/08 5/14/08 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
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	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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	90	70-130	
1,2-Dichloroethane-d4	79	70-130	
4-Bromofluorobenzene	92	70-130	



Client Sample ID: VP2-10

Lab ID#: 0803250A-05A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031422 2.47		Date of Collection: Date of Analysis: 3	3/10/08 /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

		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 FULL SCAN

File Name: Dil. Factor:	5031423 2.53		Date of Collection: Date of Analysis: 3	3/10/08 /15/08 12:05 AM
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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	90	70-130	
1,2-Dichloroethane-d4	81	70-130	
4-Bromofluorobenzene	89	70-130	



Client Sample ID: VP3-10

Lab ID#: 0803250A-07A

### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031424 2.47		Date of Collection: Date of Analysis: 3	3/10/08 5/15/08 12:38 AM
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	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,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

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	92	70-130	
1,2-Dichloroethane-d4	82	70-130	
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: Date of Analysis: 3	NA 5/14/08 11:50 AM
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 Applicable**

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	88	70-130	
1,2-Dichloroethane-d4	80	70-130	
4-Bromofluorobenzene	92	70-130	


**Client Sample ID: CCV** 

Lab ID#: 0803250A-09A

#### MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	5031402 1.00	Date of Collection: NA Date of Analysis: 3/14/08 09:51 AM
Compound		%Recoverv
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		128

		Method
Surrogates	%Recovery	Limits
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: Dil. Factor:	5031403 1.00	Date of Collection: NA 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
m,p-Xylene		104
o-Xylene		107
1,2-Dichloroethane		86
1,2-Dibromoethane (EDB)		102
Naphthalene		117

		Method	
Surrogates	%Recovery	Limits	
Toluene-d8	98	70-130	
1,2-Dichloroethane-d4	82	70-130	
4-Bromofluorobenzene	98	70-130	



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- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020 Hours 8:00 A.M to 6:00 P.M. Pacific



#### 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
	Emeryville, CA 94608		Emeryville, CA 94608
PHONE:	510-420-3351	<b>P.O.</b> #	
FAX:	510-420-9170	PROJECT #	307233
DATE RECEIVED:	03/12/2008	CONTACT	Kyle Vagadori
DATE COMPLETED:	03/17/2008	contact.	

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	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

Sinda d. Fruman

DATE: <u>03/17/08</u>

Laboratory Director

CERTIFIED BY:

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 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	ТО-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	Rot. 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 (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (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				
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	62	110	250	450
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: 3/10/08 Date of Analysis: 3/14/08 01:27 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	50	230	210	940
Container Type: 1 Liter Summa	Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		83		75-150



Client Sample ID: VP1-10

Lab ID#: 0803250B-02A

File Name: Dil. Factor:	6031417 2.42	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 01:56 PM		
Compound	Røt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	60	Not Detected	250	Not Detected
Container Type: 1 Liter Summa	a Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



## Client Sample ID: VP2-5 Lab ID#: 0803250B-03A

File Name: Dil. Factor:	6031418 2.53	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 02:27 PM		
Compound	Rɒt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	63	120	260	500
Container Type: 1 Liter Summa	Canister (100% Certified)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



## Client Sample ID: VP2-5 Duplicate Lab ID#: 0803250B-04A

File Name: Dil. Factor:	6031419 Date of Collection: 3/10/08   2.53 Date of Analysis: 3/14/08 02:57 Pl			3/10/08 3/14/08 02:57 PM
Compound	Rot. 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)			Method
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



## Client Sample ID: VP2-10

Lab ID#: 0803250B-05A

File Name: Dil. Factor:	6031420 2.47	031420 Date of Collection: 3/10/08 2.47 Date of Analysis: 3/14/08 03:2		8/10/08 14/08 03:29 PM
Compound	Rɒt. 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 Date of Collection: 3/10/08   2.53 Date of Analysis: 3/14/08		3/10/08 3/14/08 03:59 PM	
Compound	Røt. 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)			
Surrogates		%Recovery		Method Limits
Fluorobenzene (FID)		82		75-150



Client Sample ID: VP3-10

Lab ID#: 0803250B-07A

File Name: Dil. Factor:	6031422 2.47	22 Date of Collection: 3/10/08 47 Date of Analysis: 3/14/08 04:29 P		3/10/08 3/14/08 04:29 PM
Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
TPH (Gasoline Range)	62	Not Detected	250	Not Detected
Container Type: 1 Liter Summa	a Canister (100% Certified)			Mathad
Surrogates		%Recovery		Limits
Fluorobenzene (FID)		84		75-150



# Client Sample ID: Lab Blank Lab ID#: 0803250B-08A

File Name: Dil. Factor:	6031406 Date of Collection: NA 1.00 Date of Analysis: 3/14/08 08:05 A		VA /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 Surrogates		%Recovery		Method Limits
Fluorobenzene (FID)		84		75-150



Client Sample ID: LCS

Lab ID#: 0803250B-09A

File Name: Dil. Factor:	6031427 1.00	Date of Co Date of Ar	ollection: NA nalysis: 3/14/08 07:14 PM
Compound			%Recovery
TPH (Gasoline Range)			90
Container Type: NA - Not Applica	ble		
Surrogates		%Recovery	Method Limits
Fluorobenzene (FID)		111	75-150



## 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).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020 Hours 8:00 A.M to 6:00 P.M. Pacific



#### WORK ORDER #: 0803250C

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
PHONE:	510-420-3351	<b>P.O.</b> #	
FAX:	510-420-9170	PROJECT #	307233
DATE RECEIVED:	03/12/2008	CONTACT	Kyle Vagadori
DATE COMPLETED:	03/17/2008	connen	

			RECEIPT	FINAL
FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	PRESSURE
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
09B	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Sinda d. Fruman

DATE: <u>03/17/08</u>

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 due 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



## 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	

#### 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

	Rpt. Limit	Amount	
Compound	(%)	(%)	
Oxygen	0.24	20	
Carbon Dioxide	0.024	1.0	

#### **Client Sample ID: VP2-5**

#### Lab ID#: 0803250C-03A

	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	(%)	(%)
Oxygen	0.25	17
Carbon Dioxide	0.025	2.0



## 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	(%)	(%)
Oxygen	0.25	17
Carbon Dioxide	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: 3/10/08 Date of Analysis: 3/17/08 03:01 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		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		Date of Collection: 3/10/08 Date of Analysis: 3/17/08 03:27 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.41	38
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 02:53 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		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: Dil. Factor:	9031421b 2.47		Date of Collection: 3/10/08 Date of Analysis: 3/14/08 02:32 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		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	D D	ate of Collection: 3/10/08 ate 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	C	Date of Collection: 3/10/08 Date of Analysis: 3/14/08 01:49 PM
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:	9031404b	Dat	e of Collection: NA
Dil. Factor:	1.00	Dat	e of Analysis: 3/14/08 05:00 AM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Carbon Dioxide		0.010	Not Detected



# Client Sample ID: Lab Blank

Lab ID#: 0803250C-08B

### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031403b 1.00	Date o Date o	of Collection: NA of Analysis: 3/14/08 04:02 AM
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.050	Not Detected



### Client Sample ID: Lab Blank Lab ID#: 0803250C-08C

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9031728b	Da	ate of Collection: NA
Dil. Factor:	1.00	Da	ate of Analysis: 3/17/08 02:37 PM
Compound		Rpt. Limit (%)	Amount (%)
Oxygen		0.10	Not Detected
Carbon Dioxide		0.010	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
Compound		Rpt. Limit (%)	Amount (%)
Helium		0.050	Not Detected



Client Sample ID: LCS

Lab ID#: 0803250C-09A

#### NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: Dil. Factor:	9031427b 1.00	Date of Collection: NA Date of Analysis: 3/14/08 05:08 PM
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: Dil. Factor:	9031731b 1.00	Date of Collection: NA Date of Analysis: 3/17/08 03:53 PM
Compound		%Recovery
Oxygen		100
Carbon Dioxide		100
Helium		106