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1:12 pm, May 17, 2007

Alameda County  
Environmental Health

**Thomas K. Bauhs**  
Project Manager  
Retail and Terminal  
Business Unit

**Chevron Environmental  
Management Company**  
6001 Bollinger Canyon Road  
San Ramon, CA 94583  
Tel (925) 842-8898  
Fax (925) 842-8370

May 16, 2007

(date)

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

Re: Chevron Facility # 9-0019

Address: 210 Grand Avenue, Oakland, California

I have reviewed the attached report titled Two-Phase Extraction Pilot Test Report  
and dated May 16, 2007.

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

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

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

Sincerely,

Thomas K. Bauhs  
Project Manager

Enclosure: Report



**CONESTOGA-ROVERS  
& ASSOCIATES**

2000 Opportunity Dr., Suite 110, Roseville, California 95678  
Telephone: 916-677-3407, ext. 100 Facsimile: 916-677-3687  
www.CRAworld.com

May 16, 2007

Mr. Barney Chan  
Alameda County Environmental Health Services (ACEHS)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: **Two-Phase Extraction Pilot Test Report**  
Former Chevron Station 9-0019  
210 Grand Avenue  
Oakland, California

Dear Mr. Chan:

Conestoga-Rovers & Associates (CRA) submits this two-phase extraction (TPE) pilot test report on behalf of the Chevron Environmental Management Company (Chevron) for the above-referenced site. CRA acquired Cambria Environmental Technology, Inc. (Cambria) on April 2, 2007. The work described in this report was performed by Cambria and is referenced as such. The test was performed in September 2005 at Chevron's request to evaluate the effectiveness of TPE for removing residual petroleum hydrocarbon mass present in the subsurface in the area of monitoring well MW-5. Presented below are the site background, previous remedial activities, the results of the TPE pilot test, and recommendations for future actions at the site.

## **SITE BACKGROUND**

The site is a former Chevron-branded service station located at the intersection of Grand Avenue and Bay Place in a mixed residential/commercial district of Oakland, California (Figure 1). The former station facilities consisted of a station building and two dispenser islands, three 10,000-gallon fiberglass gasoline underground storage tanks (USTs), and one 1,000-gallon fiberglass waste oil UST (Figure 2). The station was demolished and all facilities were removed in June 1990. In December 1992, the site property was acquired by the City of Oakland, and a parking lot was constructed over the western portion of the site. Bay Place was extended over the eastern portion of the site. Montecito Avenue was closed at Bay Place and its southernmost portion, between Bay Place and Grand Avenue, was incorporated into the Veteran's Memorial Building property and converted to a parking lot.

## **Hydrogeology**

The site is located on the East Bay Plain, approximately 3 miles east of the San Francisco Bay and approximately 200 feet northeast of Lake Merritt. Subsurface soils in the site vicinity consist of Pleistocene alluvial fan and fluvial deposits consisting of weakly consolidated, slightly weathered, poorly sorted, irregular layers of clay, silt, sand and gravel. Boring logs indicate that

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the site is underlain by silts and clays interbedded with silty sand and gravel to the maximum depth explored of 20 feet below grade (fbg). Fine-grained materials (silts and clays) were encountered immediately beneath surface fill materials. A coarser-grained unit consisting of silty sand to silty gravel, ranging in thickness from 1 to 9 feet was encountered beneath the fine-grained unit at depths between 5 to 16 fbg. This unit is underlain by another fine-grained unit consisting of silt and silty clay.

The nearest surface water body is Lake Merritt, a tidal lake draining into San Francisco Bay, located approximately 200 feet southwest of the site. The elevation of the site is approximately 8 feet above mean sea level. Based on historical monitoring data, the shallow groundwater flow direction in the vicinity of the site fluctuates between south, west and north.

#### **PREVIOUS REMEDIAL ACTIVITIES**

An extensive source removal effort was conducted at the site in 1990 and 1991, partly during the removal of site facilities, to prevent further transport of hydrocarbons from soil to groundwater. The excavations covered a total area of approximately 6,000 square feet, but were limited laterally by adjacent sidewalks and vertically by the groundwater table. The excavation depths ranged from 4 to 9 fbg.

In January 1993, Geraghty & Miller, Inc. (GR) installed a groundwater extraction system that extracted groundwater from well MW-5. Due to extremely low groundwater production rates (0.001 to 0.02 gallons per minute), the system was shut off in January 1994. A total of 2,502 gallons of hydrocarbon-impacted groundwater were removed. The system was removed from the site in December 1995.

Hydrocarbon-impacted soil was encountered during November 1996 excavation activities for a storm drain in Montecito Avenue near the western boundary of the former service station site. Approximately 200 cubic yards of hydrocarbon-impacted soil was over-excavated by Touchstone Developments.

In May 2000, Delta Environmental Consultants, Inc. (Delta) performed a Tier 2 Risk-Based Corrective Action (RBCA) evaluation of the site. The results of the RBCA confirmed that conditions at that time did not exceed the calculated Tier 2 Site Specific Target Levels (SSTLs). Based on the RBCA, it was Delta's opinion that no further work was warranted and the site should be considered for case closure.



To assess the feasibility of reducing hydrocarbon concentrations for the purpose of accelerating site closure from the ACEHS, Cambria performed a short-term TPE pilot test on well MW-5 in September 2005. Details of the pilot test are presented below.

## **TPE PILOT TEST**

From September 14, 2005 through September 18, 2005, Cambria performed a TPE pilot test at the site. TPE was evaluated as a possible remedial alternative because previous assessments demonstrated that petroleum hydrocarbons are likely present below the water table and soil vapor extraction without water table depression would not be sufficient to remove these hydrocarbons.

### **Pilot Test Equipment**

A 25-horsepower, 400 cubic-foot-per minute (cfm) liquid-ring blower was used to apply vacuum to and extract groundwater and soil vapor from monitoring well MW-5. This well was chosen because of the presence of persistent elevated aqueous-phase hydrocarbons concentrations. Soil vapor and groundwater were extracted by applying vacuum to the 4-inch diameter well casing through a 1.5-inch diameter hose (stinger) inserted through a seal on the wellhead. The stinger extracted both soil vapor and groundwater and was progressively lowered into the extraction well during the test until reduced groundwater inflow allowed the stinger opening to be placed near the well bottom (approximately 14.5 fbg).

After extraction from the well through the stinger, the vapor/liquid process stream was passed through a vapor/liquid separator. After separation, groundwater and soil vapor were routed to separate abatement/treatment devices. A thermal oxidizer was used to treat soil vapor. Extracted groundwater was pumped from the vapor/liquid separator to a 6,500-gallon water storage tank. At the conclusion of the test, the water in the storage tank was transported off-site for disposal by Integrated Wastestream Management of Milpitas, California.

### **Data Collection**

On September 14, 2005, prior to beginning the test, depth to water measurements were collected in on-site monitoring wells MW-4 and MW-6, located 36 and 85 feet away from well MW-5, respectively. These wells were used as observation wells during the test to monitor water table drawdown beneath the site during the test. The test was then started and continued for approximately 63 hours. Throughout the test, Cambria measured the applied vacuum at the manifold, stinger, and well casing; air flow rates on the pressure (discharge) side of the blower;



volatile organic vapor concentrations at the oxidizer inlet and outlet; and induced vacuum and depth-to-water in observation wells MW-4 and MW-6. Data collected during the test was recorded on site-specific field data forms. Copies of the data forms generated during this test are included in Attachment 1.

### **Soil Vapor Extraction**

Soil vapor flow rates measured during the test varied from 9.5 cfm to 79 cfm. As illustrated by the graph provided in Figure 3, the soil vapor extraction rate from MW-5 generally decreased from the beginning to the end of the pilot test period. Vapor-phase hydrocarbon concentrations ranged from a high of 3,200 ppmv early in the test down to 160 ppmv at the conclusion of the test (Figure 4). Based on the observed flow rates and laboratory analytical data, estimated petroleum hydrocarbon removal rates during the test ranged from 0.72 lbs/day initially to 11.29 lbs/day at the end of the test, with a maximum removal rate of 30.8 lbs/day observed approximately 15 hours after the start of the test (Figure 5). A total of approximately 24 lbs of petroleum hydrocarbons were extracted in soil vapor during the test, at an average extraction rate of 9.1 lbs/day. TPE test performance data is summarized in Table 1. Results of laboratory analyses of samples collected during the test are summarized in Table 2. Copies of the laboratory analytical reports for the soil vapor samples collected during this test are included in Attachment 2.

Applied vacuum ranged from 22 to 27 inches of mercury ("Hg) during the test. Stinger vacuums ranged from 15 to 27 "Hg. Casing vacuum rates ranged from 12 to 25 "Hg during the test. The vacuums observed during the test are presented graphically in Figure 6. The difference in stinger vacuum and casing vacuum is the result of vacuum losses incurred due to groundwater extraction.

During the TPE test, Cambria attempted to periodically collect vacuum influence measurements at observation wells MW-4 and MW-6. Because of the low-permeability soils beneath the site, and the distance from extraction well MW-5 to the observation wells, no vacuum influence was measured in either of these wells during the test.

### **Groundwater Extraction and Water Table Drawdown**

Approximately 764 gallons of groundwater was extracted during the course of the pilot test. Groundwater extraction rates ranged from 0.13 to 0.22 gallons per minute (gpm) during the test. The average groundwater extraction rate over the course of the entire test was approximately 0.19 gpm.



Cambria collected water level measurements in observation wells MW-4 and MW-6 periodically during the test to determine if TPE activities resulted in water table drawdown in surrounding observation wells. Water level drawdown measurements are presented in Table 3. TPE operation depressed the water table by approximately 9.5 feet in extraction well MW-5, however, groundwater extraction at MW-5 did not create a significant amount of drawdown in the two observation wells.

### **CONCLUSIONS AND RECOMMENDATIONS**

Based on historic analytical data from groundwater samples collected at the site, groundwater impacts are localized to the area near MW-5. TPE may be a feasible alternative for removing the hydrocarbon mass submerged below the groundwater table at this well. A relatively minimal volume of groundwater was removed in order to evacuate all water from the extraction well, resulting in very little vacuum loss between the stinger and the well casing. These results would seem to demonstrate that TPE would be a favorable alternative for use at this site. However, based on the low vapor flow rates, low hydrocarbon mass removal rates, and minimal groundwater drawdown observed at the outlying monitoring wells during the TPE test, TPE would not ordinarily be viewed as an effective technology for removing submerged hydrocarbon mass at the site. Given that the submerged hydrocarbon mass is localized to one well, though, CRA believes that TPE could be used to remove enough mass to initiate a decline in hydrocarbon concentrations at MW-5.

Based on the results of the Tier 2 RBCA performed by Delta in 2000, CRA does not believe that any additional mass removal is necessary to protect human health and the environment in the area around the site. If ACEHS does not accept the results of the Tier 2 RBCA, and requires active remediation, CRA would prepare a feasibility study to determine the most appropriate technology for use at the site. The results of the test described in this report indicate that TPE should be considered for use at the site in a feasibility study, if necessary. If ACEHS does not require active remediation, CRA will prepare a request for closure for the site.



**CONESTOGA-ROVERS  
& ASSOCIATES**

Mr. Barney Chan  
May 16, 2007

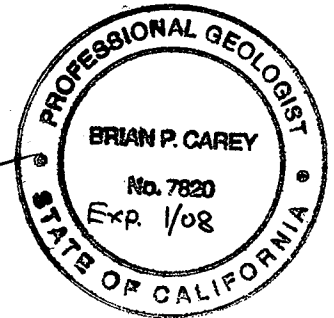
## CLOSING

As stated above, Cambria has been acquired by CRA. CRA will continue to manage this project on behalf of Chevron. CRA looks forward to working with ACEHS on this site. Please call Brian Carey of CRA at (916) 677-3407 extension 106 if you have any questions or comments about the contents of this report.

Sincerely,  
**Conestoga-Rovers & Associates, Inc.**

William E. Brasher, P.E.  
Senior Engineer

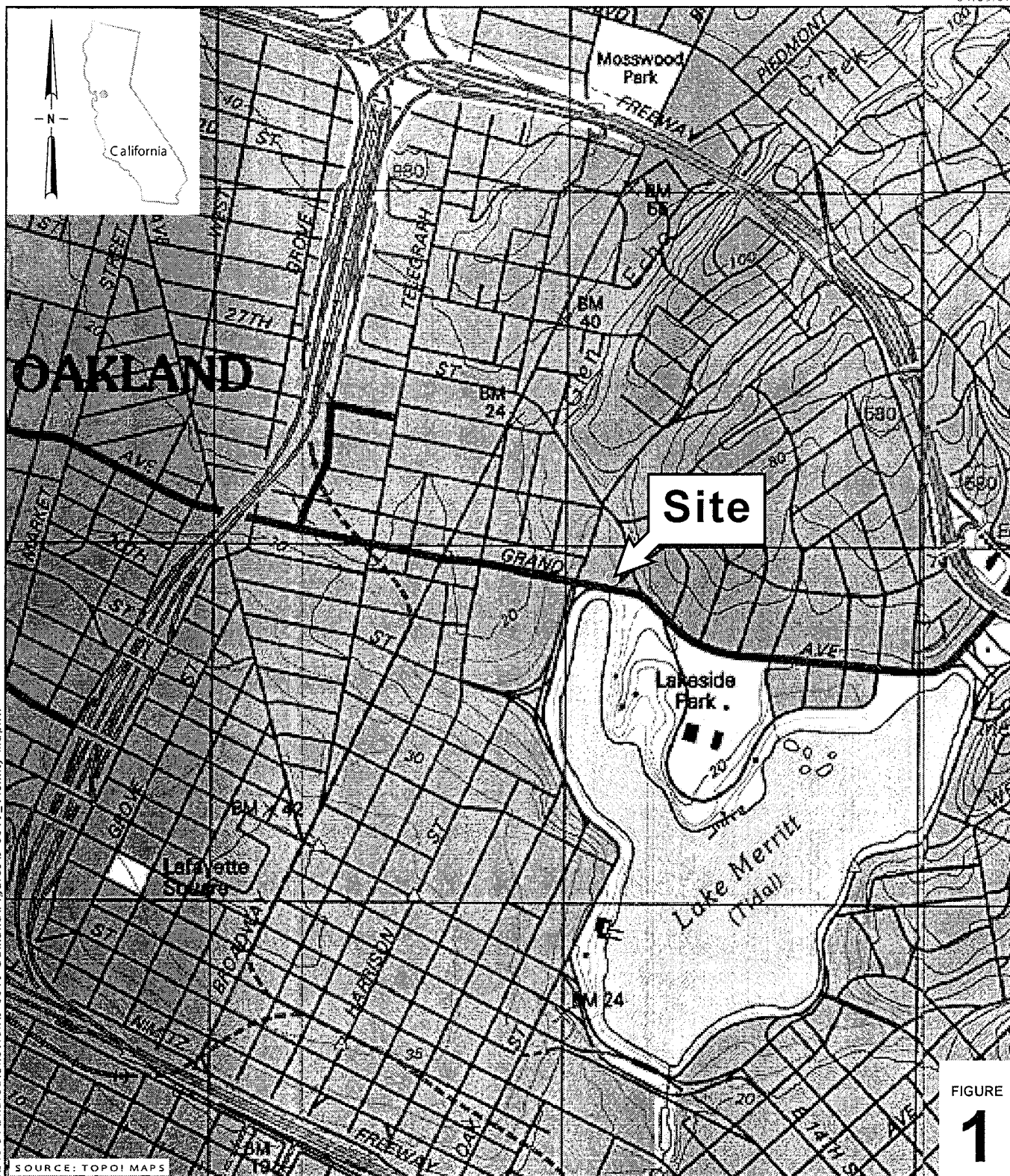
Brian P. Carey, P.G.  
Project Manager



- Figures:
- 1 – Vicinity Map
  - 2 – Site Plan
  - 3 – Soil Vapor Extraction Rate vs. Time
  - 4 – Vapor Concentrations vs. Time
  - 5 – Mass Removal Rate vs. Time
  - 6 – Vacuum Data
- Tables
- 1 – TPE Performance Data
  - 2 – Soil Vapor Sample Analytical Results
  - 3 – Drawdown Data
- Attachments
- 1 – TPE Pilot Test Field Data Forms
  - 2 – Laboratory Analytical Reports

cc: Tom Bauhs, Chevron Environmental Management Company  
Ron Basarich, City of Oakland

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FIGURE  
**1**

### Former Chevron Station 9-0019

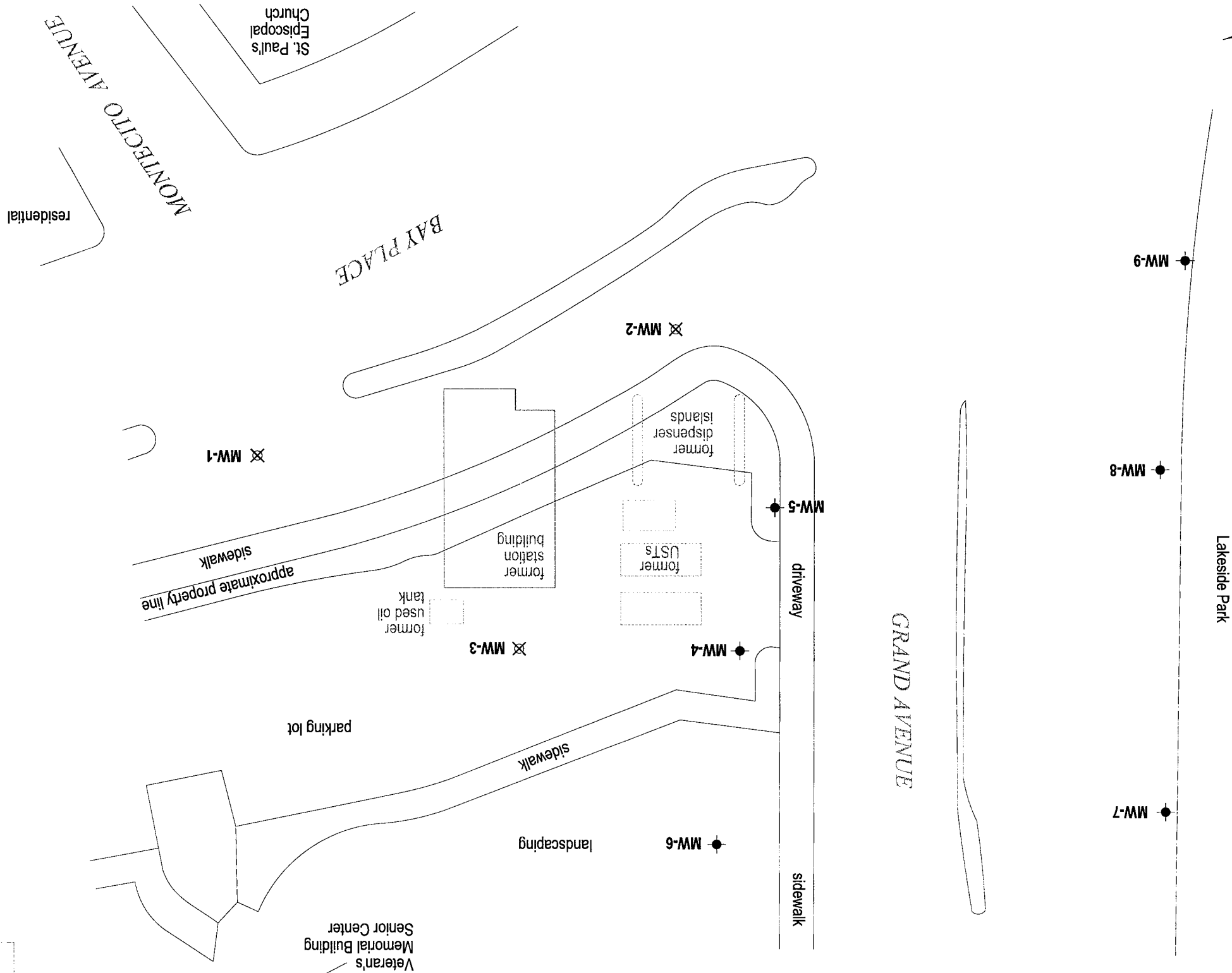
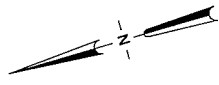
210 Grand Avenue  
Oakland, California

### Vicinity Map

**CONESTOGA-ROVERS  
& ASSOCIATES**



Basemap modified from drawing provided by Gettier-Ryan  
Scale (ft)  
0 15 30 60

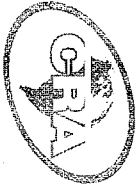


**EXPLANATION**

MW-1	X	Abandoned monitoring well location
MW-4	●	Monitoring well location

FIGURE 2

**Chevron Service Station 9-0019**  
210 Grand Avenue  
Oakland, California

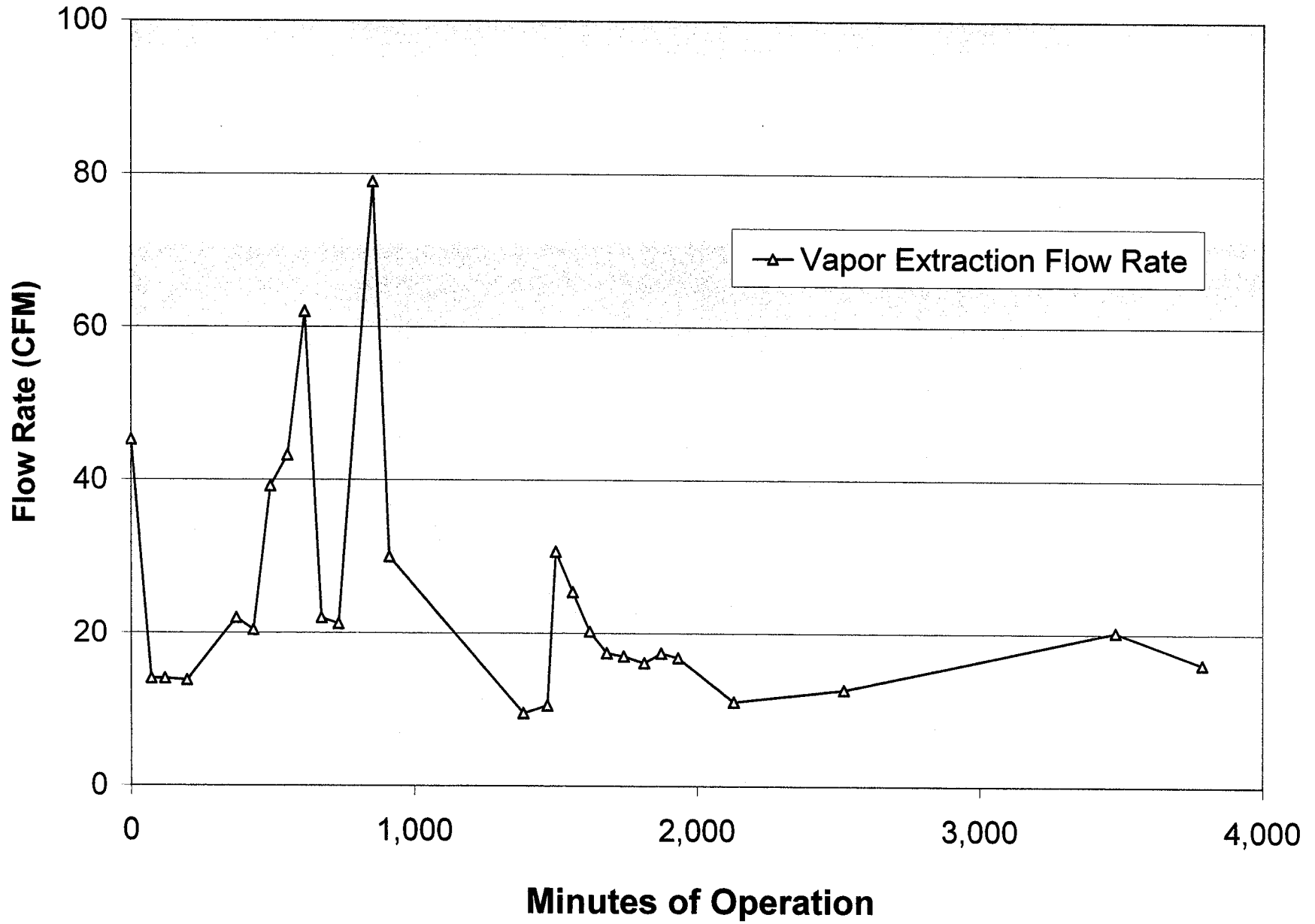


**CONESTOGA-ROVERS & ASSOCIATES**

**Site Plan**

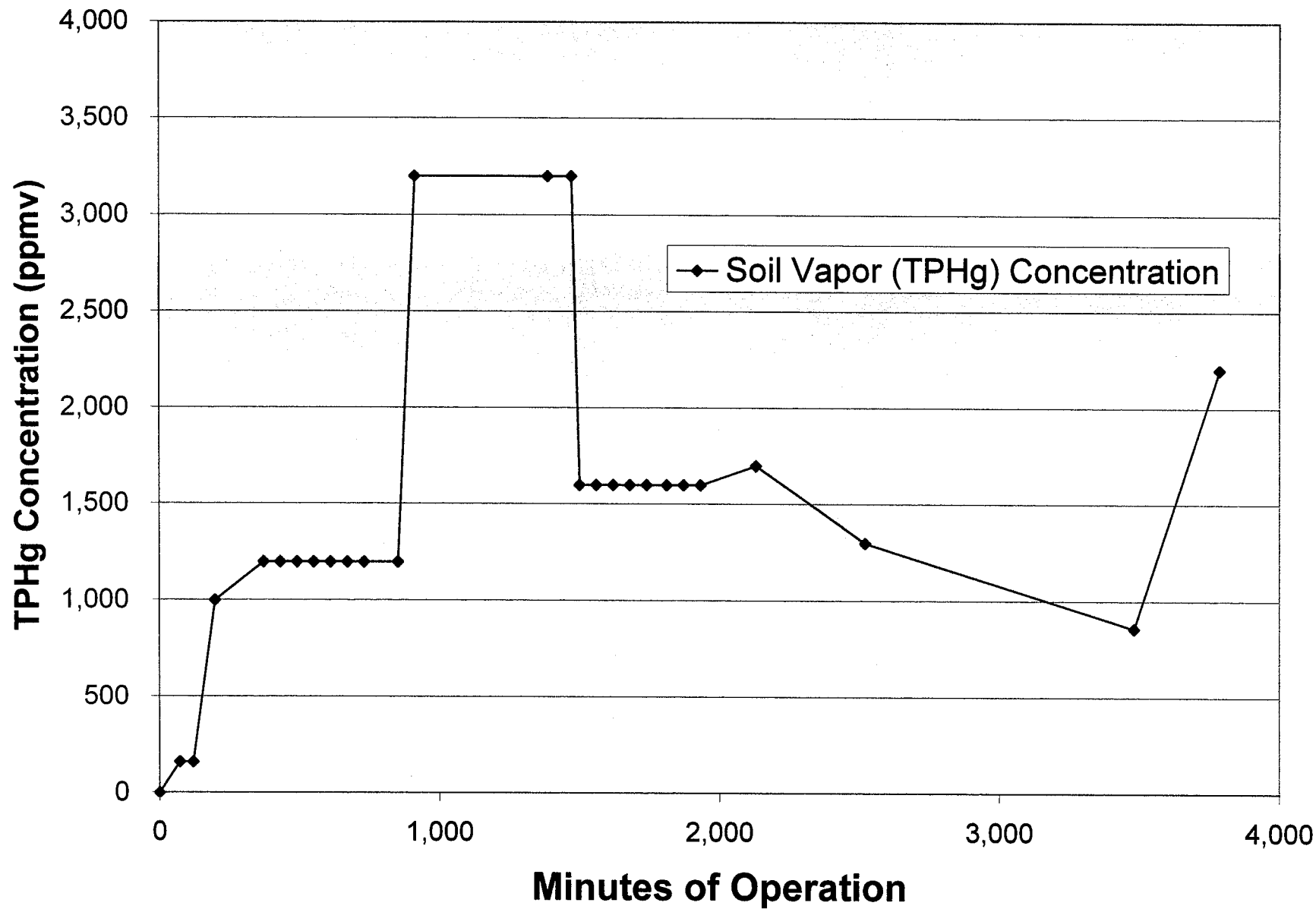
**Figure 3: Soil Vapor Extraction Rate vs. Time**

Former Chevron Service Station No. 9-0019  
210 Grand Avenue  
Oakland, California



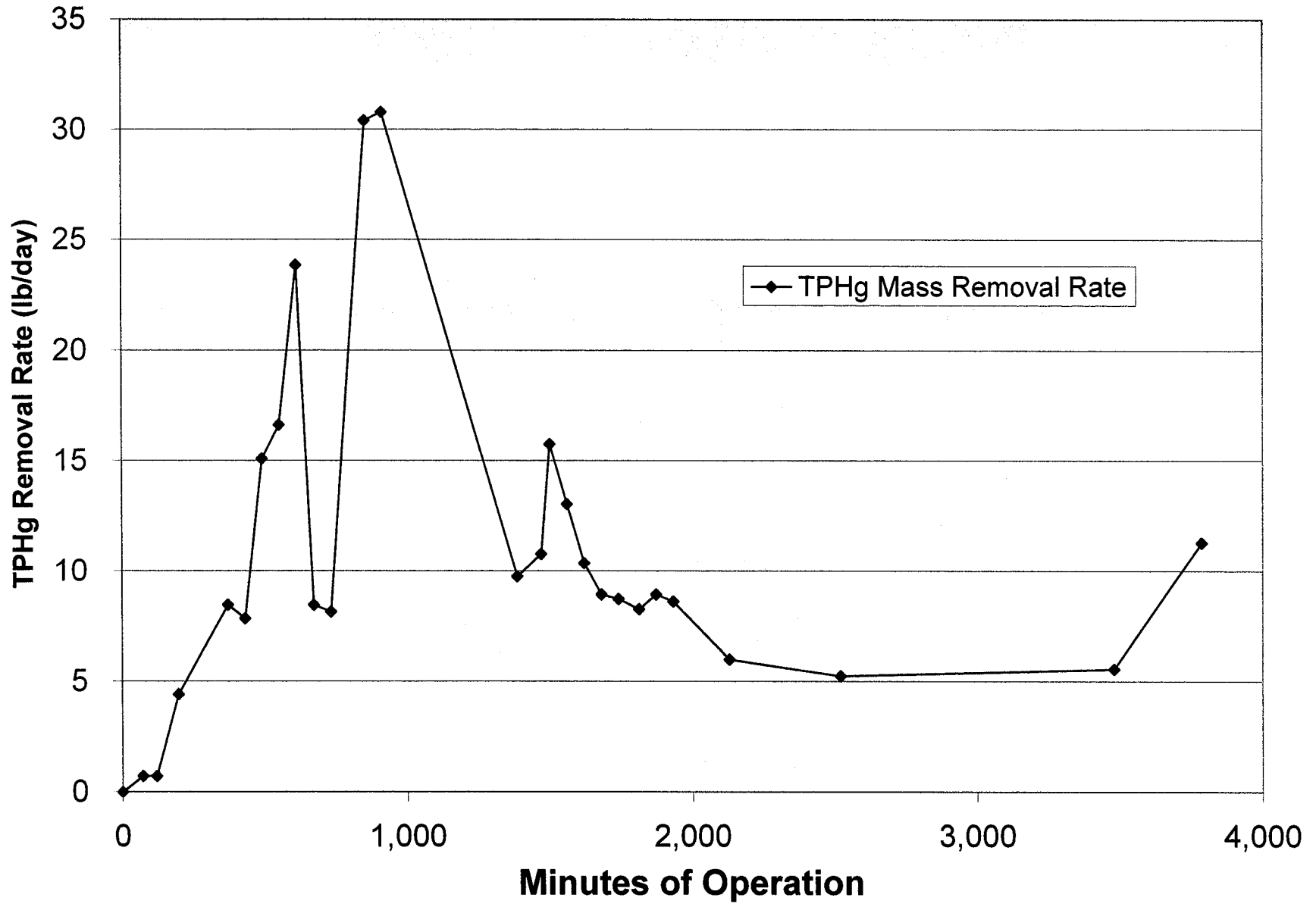
**Figure 4: Vapor Concentrations vs. Time**

Former Chevron Service Station No. 9-0019  
210 Grand Avenue  
Oakland, California



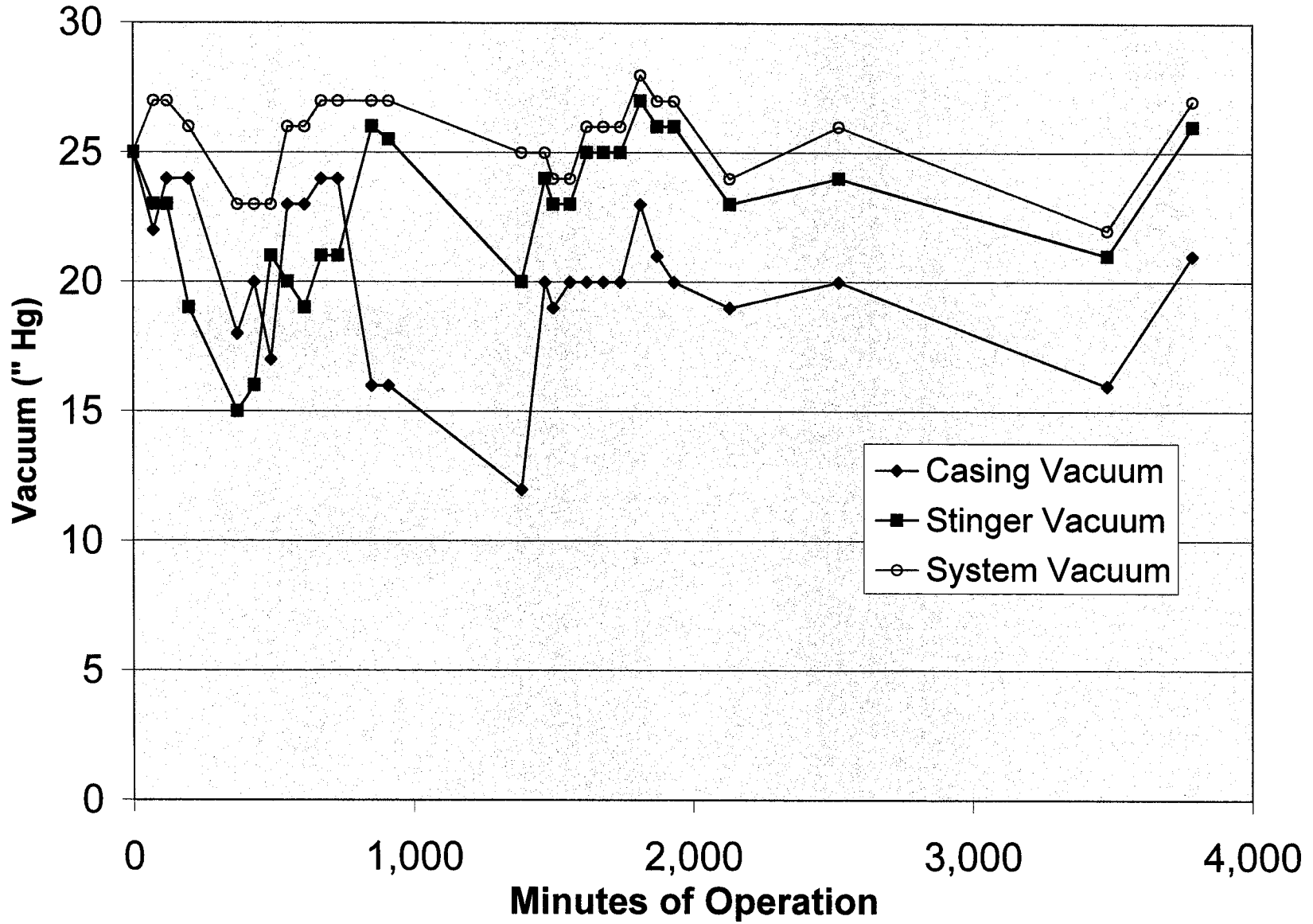
**Figure 5: Mass Removal Rate vs. Time**

Former Chevron Service Station No. 9-0019  
210 Grand Avenue  
Oakland, California



**Figure 6: Vacuum Data**

Former Chevron Service Station No. 9-0019  
210 Grand Avenue  
Oakland, California



**Table 1. TPE Performance Data.** Former Chevron Service Station 9-0019, 210 Grand Avenue Oakland, CA.

Date	Time	Extraction Well	Hour Meter Reading (hours)	Operation Time Interval (minutes)	Cumulative Operation Time (minutes)	System Flow Rate (cfm)	System Vacuum ("Hg)	Stinger Vacuum ("Hg)	Casing Vacuum ("Hg)	Laboratory Concentration <sup>1</sup> (ppmv)	FID Concentration <sup>2</sup> (ppmv)	Hydrocarbon Removal Rate <sup>3</sup> (lbs/day)	Cumulative Hydrocarbon Removal (lbs)
09/14/05	12:15	MW-5	210.0	Test Start	0	45.2	25	25	25	0	305	0.0	---
"	13:25	MW-5	211.2	72	72	14.0	27	23	22	160	800	0.7	0.0
"	14:20	MW-5	212.0	48	120	14.0	27	23	24	160	751	0.7	0.1
"	15:30	MW-5	213.3	78	198	13.8	26	19	24	1,000	825	4.4	0.3
09/15/05	7:00	MW-5	216.2	174	372	22.0	23	15	18	1,200	960	8.5	1.3
"	8:00	MW-5	217.2	60	432	20.4	23	16	20	1,200	920	7.9	1.7
"	9:00	MW-5	218.2	60	492	39.2	23	21	17	1,200	1,330	15.1	2.3
"	10:00	MW-5	219.2	60	552	43.2	26	20	23	1,200	1,570	16.6	3.0
"	11:00	MW-5	220.2	60	612	62.0	26	19	23	1,200	1,470	23.9	4.0
"	12:00	MW-5	221.2	60	672	22.0	27	21	24	1,200	1,680	8.5	4.3
"	13:00	MW-5	222.2	60	732	21.2	27	21	24	1,200	1,833	8.2	4.7
"	15:00	MW-5	224.2	120	852	79.0	27	26	16	1,200	2,596	30.4	7.2
"	16:00	MW-5	225.2	60	912	30.0	27	25.5	16	3,200	2,620	30.8	8.5
09/16/05	7:00	MW-5	233.1	474	1,386	9.5	25	20	12	3,200	3,780	9.8	11.7
"	8:30	MW-5	234.5	84	1,470	10.5	25	24	20	3,200	3,510	10.8	12.3
"	9:00	MW-5	235.0	30	1,500	30.7	24	23	19	1,600	1,390	15.8	12.6
"	10:00	MW-5	236.0	60	1,560	25.4	24	23	20	1,600	1,120	13.0	13.2
"	11:00	MW-5	237.0	60	1,620	20.2	26	25	20	1,600	1,205	10.4	13.6
"	12:00	MW-5	238.0	60	1,680	17.4	26	25	20	1,600	1,260	8.9	14.0
"	13:00	MW-5	239.0	60	1,740	17.0	26	25	20	1,600	1,586	8.7	14.4
"	14:00	MW-5	240.2	72	1,812	16.1	28	27	23	1,600	1,242	8.3	14.8
"	15:00	MW-5	241.2	60	1,872	17.4	27	26	21	1,600	1,260	8.9	15.1
"	16:00	MW-5	242.2	60	1,932	16.8	27	26	20	1,600	1,225	8.6	15.5
09/17/05	9:00	MW-5	245.5	198	2,130	11.0	24	23	19	1,700	1,345	6.0	16.3
"	15:30	MW-5	252.0	390	2,520	12.6	26	24	20	1,300	1,290	5.3	17.7
09/18/05	8:00	MW-5	268.0	960	3,480	20.2	22	21	16	860	1,120	5.6	21.5
"	15:30	MW-5	273.1	306	3,786	16.0	27	26	21	2,200	1,952	11.3	23.9

- Notes:**
- See Table 2 for summary of laboratory analytical data. For the purpose of calculating mass removal, laboratory TPHg concentrations were assumed to be stable between sample collection events.
  - Field influent concentration collected with flame ionization detector
  - Hydrocarbon Removal/Emission Rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.  
Rate = lab concentration (ppmv) x system flowrate (scfm) x (1lb-mole/386 ft<sup>3</sup>) x molecular weight (86 lb/lb-mole for TPH-Gas hexane) x 1440 min/day x 1/1,000,000.

Average Mass Removal Rate = 9.1

"Hg = inches of mercury  
cfm = cubic feet per minute  
lbs = pounds  
ppmv = parts per million by volume  
TPE = two-phase extraction

# Conestoga-Rovers and Associates

**Table 2. Soil Vapor Sample Analytical Results - Former Chevron Sevice Station 9-0019, 210 Grand Avenue, Oakland, CA.**

Sample ID	Sampling Date	Sampling Time	TPHg	Benzene (concentrations reported in parts per million by volume, ppm(v))	Toluene	Ethylbenzene	Xylenes	MTBE
EFFLUENT	09/14/05	12:25	3.9	<0.5	<0.8	<0.4	<0.7	<0.4
INFLUENT	09/14/05	12:30	160	2	1	0.8	2	14
INFLUENT	09/14/05	15:45	1,000	10	20	6	20	110
INFLUENT	09/15/05	7:15	1,200	10	10	4	9	140
INFLUENT	09/15/05	16:15	3,200	20	50	10	30	340
INFLUENT	09/16/05	9:10	1,600	10	30	6	20	160
INFLUENT	09/16/05	16:15	1,600	10	30	8	20	140
INFLUENT	09/17/05	9:35	1,700	10	30	20	40	130
INFLUENT	09/17/05	15:30	1,300	8	30	10	40	<0.4
INFLUENT	09/18/05	8:15	860	6	20	10	30	61
INFLUENT	09/18/05	15:35	2,200	10	40	20	60	140

**Abbreviations/Notes:**

Total petroleum hydrocarbons as gasoline (TPHg) is identified in the laboratory report as "C2-C10 Hydrocarbons hexane" and was determined using EPA Method 25 modified  
Benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl *tertiary*-butyl ether (MTBE) by EPA Method 18 modified

<x = Not detected above method detection limit

ppm(v) = Parts per million by volume

# Conestoga-Rovers and Associates

**Table 3. Drawdown Data.** Chevron Facility #90019- 210 Grand Avenue Oakland, CA.

Date	Time	MW-5		MW-4		MW-6	
		Depth to Water (feet below top of casing)	Drawdown (feet)	Depth to Water (feet below top of casing)	Drawdown (feet)	Depth to Water (feet below top of casing)	Drawdown (feet)
09/14/05	10:00	5.00	0.00	4.32	0.00	5.62	0.00
"	16:00	14.5	9.50	4.30	-0.02	5.61	-0.01
09/15/05	7:30	14.5	9.50	4.32	0.00	5.65	0.03
09/16/05	16:00	14.5	9.50	4.33	0.01	5.67	0.05
09/17/05	16:45	14.5	9.50	4.33	0.01	5.66	0.04
09/18/05	8:00	14.5	9.50	4.34	0.02	5.66	0.04
"	15:45	14.5	9.50	4.45	0.13	5.66	0.04
<b>Distance from MW-5</b>		<b>0</b>		<b>36</b>		<b>85</b>	

**Notes:**

Times shown above at which depths to water were measured are approximate.

Depths to water at MW-5 documented above are estimated except for the measurement at 10:00 AM on 9/14/05.



**ATTACHMENT 1**

**TPE PILOT TEST FIELD DATA FORMS**

TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019 Project # \_\_\_\_\_ Date: 9-14-05  
 Extraction Equipment: \_\_\_\_\_ Vapor Analyzer: \_\_\_\_\_  
 Flow meter model: \_\_\_\_\_ Extraction Type: TPE or DPE

Sheet 1 of \_\_\_\_\_

Test Well (with stinger or pump depth)	Time / System Hour Meter (hrs)	System Flowrate(cfm)  Display/ Anemometer	System Vacuum ("Hg)  At manifold	System Inlet Temp. (F)	System HC Conc. Influent (ppmv) With FID	Dilution Flowrate (%)	Stinger Vacuum ("Hg)	Well Casing Vacuum ("Hg)	GW Flow Totalizer (gallons)	Instantaneous Flowrate at knock-out chamber (gpm)	DTW and Vacuum in Observation Wells				
											Distance from Test Well (feet)				
											DTW (ft) / Wellhead Vacuum (H <sub>2</sub> O)				
MW5				Unit Start UP											
@ 9.5'															
1215	2100	45.2	25	1450	305	100%	25	25	0		Lab sample	EFF	1225	✓	
						closed					Lab sample	INF	1230	✓	
1325	211.2	14.0	27	1423	800	100%	23	22	0						
						closed									
1420	212.0	14.0	27	1506	751	100%	23	24	0						
						closed									
1530	213.3	15.8	26	1544	825	100%	19	24	0		Lab sample	INF	1545	✓	
						closed									
1600	50	gallons	@ Knock out												

Propane @ 80% @ start up.

PAGE 01  
K HINKLEY AUTO TECH  
5108811058  
04/05/2007 08:54

TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019 Project # \_\_\_\_\_ Date: 9-15-05

Extraction Equipment: \_\_\_\_\_ Vapor Analyzer: \_\_\_\_\_

Flow meter model: \_\_\_\_\_ Extraction Type: TPE or DPE

Sheet 2 of \_\_\_\_\_

Test Well (with stinger or pump depth)	Time / System Hour Meter (hrs)	System Flowrate(cfm)  Display/ Anemometer	System Vacuum ("Hg)  At manifold	System Inlet Temp. (F)	System HC Conc. Influent (ppmv) With FID	Dilution Flowrate (%)	Stinger Vacuum ("Hg)	Well Casing Vacuum ("Hg)	GW Flow Totalizer (gallons)	Instantaneous Flowrate at knock-out chamber (gpm)	DTW and Vacuum in Observation Wells					
											Distance from Test Well (feet)					
											DTW (ft) / Wellhead Vacuum ("H <sub>2</sub> O)					
MW5 @9.5'			Unit off Restart Unit													
700	216.2	22.0	23	1455	960	100%	15	18	0		Lab Sample @ 715 INF					
						closed										
800	217.2	20.4	23	1458	920	100%	16	20	0							
						closed										
900	218.2	39.2	23	1460	1330	100%	21	17	0							
						closed										
1000	219.2	43.2	26	1532	1570	100%	20	23	0							
						closed										
1100	220.2	62.0	26	1592	1470	100%	19	23	0							
						closed										
1115	50 gallons @ knock out															

04/05/2007 08:54 5108811058 K HINKLEY AUTO TECH  
\*Version 1.0 for field DVE test Data Sheet - Beta Version

Generator off speed fault  
propane @ 55% @ arrival

TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019 Project # \_\_\_\_\_ Date: 9-15-05

Extraction Equipment: \_\_\_\_\_ Vapor Analyzer: \_\_\_\_\_

Flow meter model: \_\_\_\_\_ Extraction Type: TPE or DPE

Sheet 3 of \_\_\_\_\_

Test Well (with stinger or pump depth)	Time / System Hour Meter (hrs)	System Flowrate(cfm)  Display/ Anemometer	System Vacuum ("Hg) At manifold	System Inlet Temp. (F)	System HC Conc. Influent (ppmv) With FID	Dilution Flowrate (%)	Stinger Vacuum ("Hg)	Well Casing Vacuum ("Hg)	GW Flow Totalizer (gallons)	Instantaneous Flowrate at knock-out chamber (gpm)	DTW and Vacuum in Observation Wells							
											Distance from Test Well (feet)							
											DTW (ft) / Wellhead Vacuum ("H <sub>2</sub> O)							
MM-5 @ 9.5'																		
1200	221.2	22	27	1542	1680	100%	21	24	0									
						closed												
1300	222.2	21.2	27	1580	1833	100%	21	24	0									
						closed												
1500	224.2	79	27	1586	2596	100%	26	16	0									
						closed												
1545	plumb totalizer in line → reads 0032637.3																	
	(up to this point, pump cycled 3x to empty tank) = 210 gallons																	
1550	pump ~ 15 gallons out of KO, totalizer c. 0032651.3																	
1600	225.2	30	27	1597	2620	100%	25.5	16	32651.3									
						closed												
1600-1620 - produced 6 gallons of water during interval																		

TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019 Project # \_\_\_\_\_ Date: 9-16-05  
 Extraction Equipment: \_\_\_\_\_ Vapor Analyzer: \_\_\_\_\_  
 Flow meter model: \_\_\_\_\_ Extraction Type: TPE or DPE

Sheet 4 of \_\_\_\_\_

Test Well (with stinger or pump depth)	Time / System Hour Meter (hrs)	System Flowrate(cfm)  Display/ Anemometer	System Vacuum ("Hg)  At manifold	System Inlet Temp. (F)	System HC Conc. Influent (ppmv) With PID	Dilution Flowrate (%)	Stinger Vacuum ("Hg)	Well Casing Vacuum ("Hg)	GW Flow Totalizer (gallons)	Instantaneous Flowrate at knock-out chamber (gpm)	DTW and Vacuum in Observation Wells						
											Distance from Test Well (feet)						
											DTW (ft) / Wellhead Vacuum ("H <sub>2</sub> O)						
MW-5 @ 9.5'				Unit off Restart unit													
700	233.1	9.5	25	1441	3780	100%	20	12	32712								
						closed											
830	234.5	10.5	25	1470	3510	100%	24	20	32712	tightened well seal							
						closed											
900	235.0	30.7	24	1423	1390	99%	23	19	32712	Lab Sample @ 9:10	JNF	✓					
						closed											
1000	236.0	25.4	24	1461	1120	99%	23	20	32712								
						closed											
1100	237.0	20.2	26	1497	1205	99%	25	20	32712								
						closed											
1200	238.0	17.4	26	1530	1260	99%	25	20	32775								
						closed											

propene @ 65% @ arrival

TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019 Project # \_\_\_\_\_ Date: 9-16-05  
 Extraction Equipment: \_\_\_\_\_ Vapor Analyzer: \_\_\_\_\_  
 Flow meter model: \_\_\_\_\_ Extraction Type: TPE or DPE

Sheet 5 of \_\_\_\_\_

Test Well (with stinger or pump depth)	Time / System Hour Meter (hrs)	System Flowrate(cfm)  Display/ Anemometer	System Vacuum ("Hg)  At manifold	System Inlet Temp. (F)	System HC Conc. Influent (ppmv) With FID	Dilution Flowrate (%)	Stinger Vacuum ("Hg)	Well Casing Vacuum ("Hg)	GW Flow Totalizer (gallons)	Instantaneous Flowrate at knock-out chamber (gpm)	DTW and Vacuum in Observation Wells			
											Distance from Test Well (feet)			
											DTW (ft) / Wellhead Vacuum ("H <sub>2</sub> O)			
<u>MW-5</u> <u>@ 9.5'</u> <u>1300</u>	<u>239.0</u>	<u>17.0</u>	<u>26</u>	<u>1560</u>	<u>1586</u>	<u>99%</u> <u>closed</u>	<u>25</u>	<u>20</u>	<u>32775</u>					
<u>1400</u>	<u>240.2</u>	<u>16.1</u>	<u>28</u>	<u>1535</u>	<u>1242</u>	<u>98%</u> <u>closed</u>	<u>27</u>	<u>23</u>	<u>32775</u>	<u>1443 hrs.</u> <u>1513 hrs.</u>	<u>→ 500 gallons</u>			
<u>1500</u>	<u>241.2</u>	<u>17.4</u>	<u>27</u>	<u>1530</u>	<u>1260</u>	<u>99%</u> <u>closed</u>	<u>26</u>	<u>21</u>	<u>32775</u>					
<u>1600</u>	<u>242.2</u>	<u>16.8</u>	<u>27</u>	<u>1542</u>	<u>1225</u>	<u>94%</u> <u>closed</u>	<u>26</u>	<u>20</u>	<u>32830</u>		<u>Lab Sample @ 1615 INF ✓</u>			

04/05/2007 08:54 5108911058 K HINKLEY AUTO TECH

TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019 Project # \_\_\_\_\_ Date: 9-17-05

Extraction Equipment: \_\_\_\_\_ Vapor Analyzer: \_\_\_\_\_

Flow meter model: \_\_\_\_\_ Extraction Type: TPE or DPE

Sheet 6 of \_\_\_\_\_

Test Well (with stinger or pump depth)	Time / System Hour Meter (hrs)	System Flowrate (cfm)  Display/ Anemometer	System Vacuum ("Hg)  At manifold	System Inlet Temp. (F)	System HC Conc. Influent (ppmv) With FID	Dilution Flowrate (%)	Stinger Vacuum ("Hg)	Well Casing Vacuum ("Hg)	GW Flow Totalizer (gallons)	Instantaneous Flowrate at knock-out chamber (gpm)	DTW and Vacuum in Observation Wells								
											Distance from Test Well (feet)								
											DTW (ft) / Wellhead Vacuum ("H <sub>2</sub> O)								
MN-5 @ 9.5'																			
730	243.9								32853										
900	245.5	11.0	24	1514	1345	99%	23	19	32853	32 gal in 1.5 hrs.									
						closed													
1530	252.0	12.6	26	1580	1290	99%	24	20	32919										
						closed													

propose @ 45% @ initial

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 K HINKLEY AUTO TECH  
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 04/05/2007 08:54

04/05/2007/08:54 ADVE - test Data Sheet - Brian Vanden

TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019 Project # \_\_\_\_\_ Date: 9-18-05  
 Extraction Equipment: \_\_\_\_\_ Vapor Analyzer: \_\_\_\_\_  
 Flow meter model: \_\_\_\_\_ Extraction Type: TPE or DPE

Sheet 7 of \_\_\_\_\_

Test Well (with stinger or pump depth)	Time / System Hour Meter (hrs)	System Flowrate(cfm)  Display/ Anemometer	System Vacuum ("Hg)  At manifold	System Inlet Temp. (F)	System HC Conc. Influent (ppmv) With FID	Dilution Flowrate (%)	Stinger Vacuum ("Hg)	Well Casing Vacuum ("Hg)	GW Flow Totalizer (gallons)	Instantaneous Flowrate at knock-out chamber (gpm)	DTW and Vacuum in Observation Wells								
											Distance from Test Well (feet)								
											DTW (ft) / Wellhead Vacuum ("H <sub>2</sub> O)								
MWS																			
@9.5'																			
800	268.0	20.2	22	1553	1120	99%	21	16	33117										
						closed													
815	272.8					99%													
						closed													
1530	273.1	16.0	27	1425	1952	99%	26	21	33191										
						closed													
1600																			

Leads sample 815 INF ✓

Restart

end test

propane @ 35% @ arrival

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04/05/2007



WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-4	10:00	/	4.32		13.65	
MW-5	10:15	'	5.0		9.70	
MW-6	9:30		5.62		7.80	

Project Name: 9.0019  
 Measured By: BC

Project Number: \_\_\_\_\_  
 Date: 9-14-05  
PRE-TEST

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WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-4	4:00		4.30		13.65	
MW-6	4:05		5.61		7.80	

Project Name: 9-0019  
 Measured By: PC

Project Number: \_\_\_\_\_  
 Date: 9-14-05  
PM - after start up

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WELL DEPTH MEASUREMENTS

Well ID	Time	Product-Depth ROI	Water Depth	Product Thickness	Well Depth	Comments
MW-4	7:30		4.32		13.65	Before start up
MW-6	7:40		5.65		7.80	Before Start up
MW-4	9:30	0.0				
MW-5						
MW-6	9:15	0.1				

Project Name: 9-0019  
 Measured By: BC

Project Number: \_\_\_\_\_  
 Date: 9/15/05

Pre Test

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 04/05/2007



### WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-4	1645	—	4.33	—	13.65	
MW-6	1650	—	5.66	—	7.80	

Project Name: \_\_\_\_\_

Measured By: \_\_\_\_\_

*pm*

Project Number: \_\_\_\_\_

Date: 9-17-05



WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-4	1545	/	4.45	/		
MW-6	1548	/	5.66	/		

Project Name: 9-0019  
Measured By: \_\_\_\_\_

Project Number: \_\_\_\_\_  
Date: 9-18-05  
*end*

**ATTACHMENT 2**

**LABORATORY ANALYTICAL REPORTS**





# Analysis Report

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

## 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 959531. Samples arrived at the laboratory on Friday, September 16, 2005. The PO# for this group is 99011184 and the release number is INGLIS.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
Effluent-A-050914	Grab	Tedlar Bag	4604314
Influent-A-050914	Grab	Tedlar Bag	4604315
Influent-A-050914	Grab	Tedlar Bag	4604316

1 COPY TO

Cambria Environmental

Attn: Brian Busch

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

Respectfully Submitted,

Michele J. Smith  
Group Leader



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4604314

Effluent-A-050914 Grab Tedlar Bag  
 Facility# 90019 CETR  
 210 Grand Ave Oakland T0600100313 Effluent  
 Collected: 09/14/2005 12:25 by ML Account Number: 10880

Submitted: 09/16/2005 08:55  
 Reported: 09/26/2005 at 19:48  
 Discard: 10/27/2005  
 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	Units	Dilution Factor
				Method Detection Limit		
06864	C2-C10 Hydrocarbons hexane	n.a.	3.9	1.0	ppm(v)	1
07045	MTBE	1634-04-4	N.D.	0.40	ppm(v)	1
07059	BTEX					
07063	Benzene	71-43-2	N.D.	0.5	ppm(v)	1
07064	Toluene	108-88-3	N.D.	0.8	ppm(v)	1
07065	Ethylbenzene	100-41-4	N.D.	0.4	ppm(v)	1
07068	Xylene (total)	1330-20-7	N.D.	0.7	ppm(v)	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/24/2005 00:50	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	09/24/2005 00:50	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	09/24/2005 00:50	Douglas Graham	1



# Analysis Report

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Lancaster Laboratories Sample No. AQ 4604315

Influent-A-050914 Grab Tedlar Bag  
Facility# 90019 CETR  
210 Grand Ave Oakland T0600100313 Influent  
Collected: 09/14/2005 12:30 by ML

Account Number: 10880

Submitted: 09/16/2005 08:55  
Reported: 09/26/2005 at 19:48  
Discard: 10/27/2005

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method	Units	
06864	C2-C10 Hydrocarbons hexane	n.a.	160.	1.0	ppm(v)	1
07045	MTBE	1634-04-4	14.	0.40	ppm(v)	1
07059	BTEX					
07063	Benzene	71-43-2	2.	0.5	ppm(v)	1
07064	Toluene	108-88-3	1.	0.8	ppm(v)	1
07065	Ethylbenzene	100-41-4	0.8	0.4	ppm(v)	1
07068	Xylene (total)	1330-20-7	2.	0.7	ppm(v)	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/24/2005	01:20	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	09/24/2005	01:20	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	09/24/2005	01:20	Douglas Graham	1



# Analysis Report

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Lancaster Laboratories Sample No. AQ 4604316

Influent-A-050914 Grab Tedlar Bag  
Facility# 90019 CETR  
210 Grand Ave Oakland T0600100313 Influent  
Collected: 09/14/2005 15:45 by ML

Account Number: 10880

Submitted: 09/16/2005 08:55  
Reported: 09/26/2005 at 19:48  
Discard: 10/27/2005

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Dilution Factor
				Method Detection Limit	Units	
06864	C2-C10 Hydrocarbons hexane	n.a.	1,000.	1.0	ppm(v)	1
07045	MTBE	1634-04-4	110.	0.40	ppm(v)	1
07059	BTEX					
07063	Benzene	71-43-2	10.	0.5	ppm(v)	1
07064	Toluene	108-88-3	20.	0.8	ppm(v)	1
07065	Ethylbenzene	100-41-4	6.	0.4	ppm(v)	1
07068	Xylene (total)	1330-20-7	20.	0.7	ppm(v)	1

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/24/2005	01:51	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	09/24/2005	01:51	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	09/24/2005	01:51	Douglas Graham	1

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 09/26/05 at 07:48 PM

Group Number: 959531

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>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: M052681ZA	Sample number(s): 4604314-4604316							
MTBE	N.D.	0.40	ppm (v)					
Benzene	N.D.	0.5	ppm (v)	94		50-146		
Toluene	N.D.	0.8	ppm (v)	99		55-143		
Ethylbenzene	N.D.	0.4	ppm (v)	99		46-159		
Xylene (total)	N.D.	0.7	ppm (v)	107		47-165		

\*- Outside of specification

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

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only 67P # 959531  
 Acct #: 10880 Sample #: 4604314-16 SCR#: \_\_\_\_\_

Facility #: 9-0019  
 Site Address: 210 Grand Ave Oakland  
 Chevron PM: Mark Inglis Lead Consultant: Cambria  
 Consultant/Office: 5900 Hollis St. Emeryville  
 Consultant Prj. Mgr.: Brian Busch  
 Consultant Phone #: 510)420-0200 Fax #: 510)420-9120  
 Sampler: Mike Lanning  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Analyses Requested									
Preservation 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

Field Point Name	Matrix	Repeat Sample	Top Depth	Year	Month	Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421
EFFluent	Air			05	09	14	1225		X		1	X	X					
Influent	↓						1230		X		1	X	X					
Influent	↓						1545		X		1	X	X					

Comments / Remarks

---

Relinquished by: [Signature] Date: 9/14/05 Time: 1700  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: Commercial Carrier: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: Kathy Binkley Date: 9-16-05 Time: 0855  
 UPS:  FedEx    Other: \_\_\_\_\_  
 Temperature Upon Receipt: (N/A) °C  
 Custody Seats Intact? Yes  No  (N/A)

**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

# Explanation of Symbols and Abbreviations

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

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	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.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
<b>ppm</b>	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.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

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

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

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

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# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: \_\_\_\_\_ Sample #: \_\_\_\_\_ SCR#: \_\_\_\_\_

Facility #: <u>9-0019 R5L</u> Site Address: <u>210 Grand Ave Oakland</u> Chevron PM: <u>Mark Inalis</u> Lead Consultant: <u>Cumbria</u> Consultant/Office: <u>5900 Hollis St. Emeryville</u> Consultant Prj. Mgr.: <u>Brian Busch</u> Consultant Phone #: <u>510)420-0700</u> Fax #: <u>510)420-9170</u> Sampler: <u>Mike Lunning</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____							<b>Analyses Requested</b>										<b>Preservative Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other	
							<b>Preservation Codes</b>										<input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ____ oxy's on highest hit <input type="checkbox"/> Run ____ oxy's on all hits	
							Total Number of Containers: _____ BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021 TPH 8015 MOD GRO _____ TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup _____ 8260 full scan _____ _____ Oxygenates _____ Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>											
Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421	Comments / Remarks	
Effluent	Air			05 09 14	1225		X	1	X	X								
Influent	↓			↓	1230		X	1	X	X								
Influent	↓			↓	1545		X	1	X	X								
<b>Turnaround Time Requested (TAT) (please circle)</b> <u>8TD TAT</u> 72 hour      48 hour 24 hour      4 day      5 day							Relinquished by: <u>[Signature]</u> Date: <u>9/14/05</u> Time: <u>1700</u>			Received by: _____      Date: _____      Time: _____								
<b>Data Package Options (please circle if required)</b> QC Summary      Type I – Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk							Relinquished by: _____      Date: _____      Time: _____			Received by: _____      Date: _____      Time: _____								
							Relinquished by Commercial Carrier: UPS      FedEx      Other _____			Received by: _____      Date: _____      Time: _____								
							Temperature Upon Receipt _____ C°			Custody Seals Intact?      Yes      No								



9/15



# Analysis Report

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

## 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 959532. Samples arrived at the laboratory on Friday, September 16, 2005. The PO# for this group is 99011184 and the release number is INGLIS.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
Influent-A-050915	Grab Tedlar Bag	4604317
Influent-A-050915	Grab Tedlar Bag	4604318

1 COPY TO Cambria Environmental

Attn: Brian Busch

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

Respectfully Submitted,

Michele J. Smith  
Group Leader





# 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 1

Lancaster Laboratories Sample No. AQ 4604318

Influent-A-050915                 Grab                 Tedlar Bag  
 Facility# 90019   CETR  
 210 Grand Ave Oakland             T0600100313    Influent  
 Collected: 09/15/2005 16:15       by ML

Account Number: 10880

Submitted: 09/16/2005 08:55  
 Reported: 09/26/2005 at 19:49  
 Discard: 10/27/2005

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
06864	C2-C10 Hydrocarbons hexane	n.a.	3,200.		1.0	ppm(v)	1
07045	MTBE	1634-04-4	340.		0.40	ppm(v)	1
07059	BTEX						
07063	Benzene	71-43-2	20.		0.5	ppm(v)	1
07064	Toluene	108-88-3	50.		0.8	ppm(v)	1
07065	Ethylbenzene	100-41-4	10.		0.4	ppm(v)	1
07068	Xylene (total)	1330-20-7	30.		0.7	ppm(v)	1

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/24/2005 02:52	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	09/24/2005 02:52	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	09/24/2005 02:52	Douglas Graham	1

## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 09/26/05 at 07:49 PM

Group Number: 959532

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>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: M052681ZA	Sample number(s): 4604317-4604318							
MTBE	N.D.	0.40	ppm(v)					
Benzene	N.D.	0.5	ppm(v)	94		50-146		
Toluene	N.D.	0.8	ppm(v)	99		55-143		
Ethylbenzene	N.D.	0.4	ppm(v)	99		46-159		
Xylene (total)	N.D.	0.7	ppm(v)	107		47-165		

\*- Outside of specification

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

# Chevron California Region Analysis Request/Chain of Custody



Acct. #: 10880    Sample #: 4604318    SCR#: \_\_\_\_\_  
 For Lancaster Laboratories use only    Corp # 959532

Facility #: <u>4-0019</u> Site Address: <u>210 Grandview Delkland CA</u> Chevron PM: <u>Mark Ingalls</u> Lead Consultant: <u>Cambridge</u> Consultant/Office: <u>5900 Bellis St Emeryville CA</u> Consultant Prj. Mgr.: <u>Brian Busch</u> Consultant Phone #: <u>510)420-0700</u> Fax #: <u>510)420-9170</u> Sampler: <u>Mike Lanning</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____							<b>Analyses Requested</b>										<b>Preservative Codes</b> H = HCl    T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits							
							<b>Preservation Codes</b>																	
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Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite											<b>Comments / Remarks</b>					
<u>Influent</u>	<u>Air</u>			<u>05 09 15</u>	<u>715</u>		<input checked="" type="checkbox"/>		<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<u>Influent</u>	<u>Air</u>			<u>05 09 15</u>	<u>1615</u>		<input checked="" type="checkbox"/>		<u>1</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
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<b>Data Package Options (please circle if required)</b> QC Summary    Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk							Relinquished by: _____    Date: _____    Time: _____			Received by: _____    Date: _____    Time: _____														
Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other: _____							Received by: <u>Kathy Binkley</u> Date: <u>9-16-05</u> Time: <u>0855</u>			Custody Seals Intact?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <u>(N/A)</u>														
Temperature Upon Receipt: <u>(N/A) C°</u>							Relinquished by: _____    Date: _____    Time: _____			Received by: _____    Date: _____    Time: _____														

# Explanation of Symbols and Abbreviations

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

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	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.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
<b>ppm</b>	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.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

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

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

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

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# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: \_\_\_\_\_ Sample #: \_\_\_\_\_ SCR#: \_\_\_\_\_

Facility #: <u>0-0019 RSL</u> Site Address: <u>210 Grand Ave Oakland CA</u> Chevron PM: <u>Mark Malis</u> Lead Consultant: <u>Cambria</u> Consultant/Office: <u>5900 Hollis St Emeryville CA</u> Consultant Prj. Mgr.: <u>Brian Busch</u> Consultant Phone #: <u>510)420-0700</u> Fax #: <u>510)420-9170</u> Sampler: <u>Mike Lanning</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____						<b>Analyses Requested</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="10">Preservation Codes</th> </tr> <tr> <td><input type="checkbox"/> BTX + MTBE 8260</td> <td><input checked="" type="checkbox"/> 8021</td> <td><input type="checkbox"/> TPH 8015 MOD GRO</td> <td><input type="checkbox"/> TPH 8015 MOD DRO</td> <td><input type="checkbox"/> Silica Gel Cleanup</td> <td><input type="checkbox"/> 8260 full scan</td> <td><input type="checkbox"/> Oxygenates</td> <td><input type="checkbox"/> Lead 7420</td> <td><input type="checkbox"/> 7421</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>										Preservation Codes										<input type="checkbox"/> BTX + MTBE 8260	<input checked="" type="checkbox"/> 8021	<input type="checkbox"/> TPH 8015 MOD GRO	<input type="checkbox"/> TPH 8015 MOD DRO	<input type="checkbox"/> Silica Gel Cleanup	<input type="checkbox"/> 8260 full scan	<input type="checkbox"/> Oxygenates	<input type="checkbox"/> Lead 7420	<input type="checkbox"/> 7421	<input type="checkbox"/>	<input type="checkbox"/>	<b>Preservative Codes</b> H = HCl    T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other  <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits																																																																																																																																																																																																																																
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<b>Turnaround Time Requested (TAT) (please circle)</b> STD. TAT    72 hour    48 hour 24 hour    4 day    5 day						Relinquished by: <u>[Signature]</u> Date: <u>9-15-05</u> Time: <u>1700</u> Relinquished by: _____    Date: _____    Time: _____						Received by: _____    Date: _____    Time: _____																																																																																																																																																																																																																																																									
<b>Data Package Options (please circle if required)</b> QC Summary    Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk						Relinquished by: _____    Date: _____    Time: _____  Relinquished by Commercial Carrier: _____ UPS    FedEx    Other _____						Received by: _____    Date: _____    Time: _____																																																																																																																																																																																																																																																									
Temperature Upon Receipt _____ C°						Custody Seals Intact?    Yes    No																																																																																																																																																																																																																																																															

## 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 17605-2425SAMPLE GROUP

The sample group for this submittal is 959882. Samples arrived at the laboratory on Tuesday, September 20, 2005. The PO# for this group is 99011184 and the release number is INGLIS.

<u>Client Description</u>			<u>Lancaster Labs Number</u>
Influent-A-050916	Grab	Tedlar Bag	4606206
Influent-A-050916	Grab	Tedlar Bag	4606207
Influent-A-050917	Grab	Tedlar Bag	4606208
Influent-A-050917	Grab	Tedlar Bag	4606209
Influent-A-050918	Grab	Tedlar Bag	4606210
Influent-A-050918	Grab	Tedlar Bag	4606211

1 COPY TO

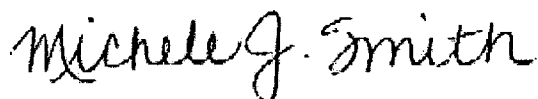
Cambria Environmental

Attn: Brian Busch



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

Respectfully Submitted,



Michele J. Smith  
Group Leader

Lancaster Laboratories Sample No. AQ 4606206

Influent-A-050916 Grab Tedlar Bag  
 Facility# 90019 CETR  
 210 Grand Ave Oakland T0600100313 Influent

Collected: 09/16/2005 09:10 by ML

Account Number: 10880

Submitted: 09/20/2005 09:10  
 Reported: 10/17/2005 at 22:31  
 Discard: 11/17/2005

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
06864	C2-C10 Hydrocarbons hexane	n.a.	1,600.	1.0	ppm (v)	5,600.	3.5	mg/m3	1
07045	MTBE	1634-04-4	160.	0.40	ppm (v)	580.	1.4	mg/m3	1
07059	BTEX								
07063	Benzene	71-43-2	10.	0.5	ppm (v)	40.	2.	mg/m3	1
07064	Toluene	108-88-3	30.	0.8	ppm (v)	100.	3.	mg/m3	1
07065	Ethylbenzene	100-41-4	6.	0.4	ppm (v)	30.	2.	mg/m3	1
07068	Xylene (total)	1330-20-7	20.	0.7	ppm (v)	70.	3.	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/26/2005	07:59	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	09/26/2005	07:59	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	09/26/2005	07:59	Douglas Graham	1

Lancaster Laboratories Sample No. AQ 4606207

 Influent-A-050916 Grab Tedlar Bag  
 Facility# 90019 CETR  
 210 Grand Ave Oakland T0600100313 Influent

Collected: 09/16/2005 16:15 by ML Account Number: 10880

 Submitted: 09/20/2005 09:10 ChevronTexaco  
 Reported: 10/17/2005 at 22:31 6001 Bollinger Canyon Rd L4310  
 Discard: 11/17/2005 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	MDL		Result	MDL		
06864	C2-C10 Hydrocarbons hexane	n.a.	1,600.	1.0	ppm(v)	5,600.	3.5	mg/m3	1
07045	MTBE	1634-04-4	140.	0.40	ppm(v)	500.	1.4	mg/m3	1
07059	BTEX								
07063	Benzene	71-43-2	10.	0.5	ppm(v)	30.	2.	mg/m3	1
07064	Toluene	108-88-3	30.	0.8	ppm(v)	100.	3.	mg/m3	1
07065	Ethylbenzene	100-41-4	8.	0.4	ppm(v)	30.	2.	mg/m3	1
07068	Xylene (total)	1330-20-7	20.	0.7	ppm(v)	100.	3.	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/26/2005	08:29	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	09/26/2005	08:29	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	09/26/2005	08:29	Douglas Graham	1

Lancaster Laboratories Sample No. AQ 4606208

Influent-A-050917 Grab Tedlar Bag  
 Facility# 90019 CETR  
 210 Grand Ave Oakland T0600100313 Influent

Collected: 09/17/2005 09:35 by ML Account Number: 10880

Submitted: 09/20/2005 09:10 ChevronTexaco  
 Reported: 10/17/2005 at 22:31 6001 Bollinger Canyon Rd L4310  
 Discard: 11/17/2005 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	MDL		Result	MDL		
06864	C2-C10 Hydrocarbons hexane	n.a.	1,700.	1.0	ppm (v)	6,000.	3.5	mg/m3	1
07045	MTBE	1634-04-4	130.	0.40	ppm (v)	470.	1.4	mg/m3	1
07059	BTEX								
07063	Benzene	71-43-2	10.	0.5	ppm (v)	30.	2.	mg/m3	1
07064	Toluene	108-88-3	30.	0.8	ppm (v)	100.	3.	mg/m3	1
07065	Ethylbenzene	100-41-4	20.	0.4	ppm (v)	70.	2.	mg/m3	1
07068	Xylene (total)	1330-20-7	40.	0.7	ppm (v)	200.	3.	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/26/2005	09:00	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	09/26/2005	09:00	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	09/26/2005	09:00	Douglas Graham	1

Lancaster Laboratories Sample No. AQ 4606209

 Influent-A-050917 Grab Tedlar Bag  
 Facility# 90019 CETR  
 210 Grand Ave Oakland T0600100313 Influent

Collected: 09/17/2005 15:30 by ML Account Number: 10880

 Submitted: 09/20/2005 09:10  
 Reported: 10/25/2005 at 10:30  
 Discard: 11/25/2005

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310  
 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	MDL		Result	MDL		
06864	C2-C10 Hydrocarbons hexane	n.a.	1,300.	1.0	ppm(v)	4,600.	3.5	mg/m3	1
07045	MTBE	1634-04-4	N.D.	0.40	ppm(v)	N.D.	1.4	mg/m3	1
07059	BTEX								
07063	Benzene	71-43-2	8.	0.5	ppm(v)	30.	2.	mg/m3	1
07064	Toluene	108-88-3	30.	0.8	ppm(v)	100.	3.	mg/m3	1
07065	Ethylbenzene	100-41-4	10.	0.4	ppm(v)	60.	2.	mg/m3	1
07068	Xylene (total)	1330-20-7	40.	0.7	ppm(v)	200.	3.	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	10/14/2005	19:39	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	1	10/14/2005	19:39	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	1	10/14/2005	19:39	Douglas Graham	1



# Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4606210

Influent-A-050918 Grab Tedlar Bag  
Facility# 90019 CETR  
210 Grand Ave Oakland T0600100313 Influent

Collected: 09/18/2005 08:15 by ML Account Number: 10880

Submitted: 09/20/2005 09:10 ChevronTexaco  
Reported: 10/17/2005 at 22:32 6001 Bollinger Canyon Rd L4310  
Discard: 11/17/2005 San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	Units	As Received Final Result	MDL	Units	DF
06864	C2-C10 Hydrocarbons hexane	n.a.	860.	1.0	ppm (v)	3,000.	3.5	mg/m3	1
07045	MTBE	1634-04-4	61.	0.40	ppm (v)	220.	1.4	mg/m3	1
07059	BTEX								
07063	Benzene	71-43-2	6.	0.5	ppm (v)	20.	2.	mg/m3	1
07064	Toluene	108-88-3	20.	0.8	ppm (v)	70.	3.	mg/m3	1
07065	Ethylbenzene	100-41-4	10.	0.4	ppm (v)	40.	2.	mg/m3	1
07068	Xylene (total)	1330-20-7	30.	0.7	ppm (v)	100.	3.	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/26/2005 15:46	David I Ressler	1
07045	MTBE	EPA Method 18 modified	1	09/26/2005 15:46	David I Ressler	1
07059	BTEX	EPA Method 18 modified	1	09/26/2005 15:46	David I Ressler	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 1

Lancaster Laboratories Sample No. AQ 4606211

Influent-A-050918 Grab Tedlar Bag  
Facility# 90019 CETR  
210 Grand Ave Oakland T0600100313 Influent

Collected: 09/18/2005 15:35 by ML Account Number: 10880

Submitted: 09/20/2005 09:10  
Reported: 10/25/2005 at 10:30  
Discard: 11/25/2005

ChevronTexaco  
6001 Bollinger Canyon Rd L4310  
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Final		Units	As Received Final		Units	DF
			Result	MDL		Result	MDL		
06864	C2-C10 Hydrocarbons hexane	n.a.	2,200.	1.0	ppm (v)	7,800.	3.5	mg/m3	1
07045	MTBE	1634-04-4	140.	0.40	ppm (v)	500.	1.4	mg/m3	1
07059	BTEX								
07063	Benzene	71-43-2	10.	0.5	ppm (v)	40.	2.	mg/m3	1
07064	Toluene	108-88-3	40.	0.8	ppm (v)	100.	3.	mg/m3	1
07065	Ethylbenzene	100-41-4	20.	0.4	ppm (v)	90.	2.	mg/m3	1
07068	Xylene (total)	1330-20-7	60.	0.7	ppm (v)	300.	3.	mg/m3	1

State of California Lab Certification No. 2116

MDL = Method Detection Limit

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	1	09/26/2005 16:17		David I Ressler	1
07045	MTBE	EPA Method 18 modified	1	09/26/2005 16:17		David I Ressler	1
07059	BTEX	EPA Method 18 modified	1	09/26/2005 16:17		David I Ressler	1

## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 10/25/05 at 10:56 AM

Group Number: 959882

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>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: M052701ZA	Sample number(s): 4606206-4606208, 4606210-4606211							
C2-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
MTBE	N.D.	0.40	ppm(v)					
Benzene	N.D.	0.5	ppm(v)	88		50-146		
Toluene	N.D.	0.8	ppm(v)	103		55-143		
Ethylbenzene	N.D.	0.4	ppm(v)	79		46-159		
Xylene (total)	N.D.	0.7	ppm(v)	84		47-165		
Batch number: M052901ZE	Sample number(s): 4606209							
C2-C10 Hydrocarbons hexane	N.D.	1.0	ppm(v)					
MTBE	N.D.	0.40	ppm(v)					
Benzene	N.D.	0.5	ppm(v)	90		50-146		
Toluene	N.D.	0.8	ppm(v)	100		55-143		
Ethylbenzene	N.D.	0.4	ppm(v)	118		46-159		
Xylene (total)	N.D.	0.7	ppm(v)	120		47-165		

\*- Outside of specification

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



# Chevron California Region Analysis Request/Chain of Custody



GIP # 959882  
 For Lancaster Laboratories use only  
 Acct. #: 10880    Sample #: 4606206-11    SCR#:

Facility #: <u>9-0019 - RSL</u> Site Address: <u>210 Grand Ave Oakland</u> Chevron PM: <u>Mark Inglis</u> Lead Consultant: <u>Cambria</u> Consultant/Office: <u>5900 Hollis St. Emeryville</u> Consultant Prj. Mgr.: <u>Brian Busch</u> Consultant Phone #: <u>(510) 420-0700</u> Fax #: <u>(510) 420-9170</u> Sampler: <u>Mike Lanning</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____							<b>Analyses Requested</b>										<b>Preservative Codes</b> H = HCl    T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits				
							<b>Preservation Codes</b>														
							Total Number of Containers: _____ BTEX+MTBE 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> TPH 8015 MOD GRO _____ TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup _____ 8260 full scan _____ Oxygenates _____ Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>														
Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX+MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	<b>Comments / Remarks</b>			
<u>Impluent</u>	<u>Air</u>			<u>05 09 16</u>	<u>910</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>												
<u>Impluent</u>	<u>Air</u>			<u>05 09 16</u>	<u>1615</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>												
<b>Turnaround Time Requested (TAT) (please circle)</b> STD. TAT    72 hour    48 hour 24 hour    4 day    5 day							Relinquished by: <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>1700</u>							Received by: _____    Date: _____    Time: _____							
<b>Data Package Options (please circle if required)</b> QC Summary    Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk							Relinquished by: _____    Date: _____    Time: _____							Received by: <u>[Signature]</u> Date: <u>9/20/05</u> Time: <u>0910</u>							
Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx    Other: _____							Temperature Upon Receipt _____ C°							Received by: _____    Date: _____    Time: _____							
Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																					

# Chevron California Region Analysis Request/Chain of Custody



Grp # 959882  
 For Lancaster Laboratories use only  
 Acct. #: 10880 Sample #: 4606206-11 SCR#: \_\_\_\_\_

Facility #: <u>9-0019 - RSL</u> Site Address: <u>210 Grand ave Oakland</u> Chevron PM: <u>Mark Lamm</u> Lead Consultant: <u>Cambrin</u> Consultant/Office: <u>5900 Hollis St Emeryville CA</u> Consultant Prj. Mgr.: <u>Brian Busch</u> Consultant Phone #: <u>(510) 420-0200</u> Fax #: <u>(510) 420-9170</u> Sampler: <u>Mike Lamm</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____							<b>Analyses Requested</b>										<b>Preservative Codes</b>																															
							<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th colspan="10" style="text-align: center;">Preservation Codes</th> </tr> <tr> <td style="width: 10%;">BTEX + MTBE</td> <td style="width: 10%;">8260</td> <td style="width: 10%;">8021</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>TPH 8015 MOD</td> <td>GRO</td> <td>TPH 8015 MOD DRO</td> <td>Silica Gel Cleanup</td> <td>8260 full scan</td> <td>Oxygenates</td> <td>Lead 7420</td> <td>7421</td> <td></td> <td></td> </tr> </table>										Preservation Codes										BTEX + MTBE	8260	8021								TPH 8015 MOD	GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421			H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other  <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits	
Preservation Codes																																																
BTEX + MTBE	8260	8021																																														
TPH 8015 MOD	GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421																																									
Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers																																							
<u>Influent</u>	<u>Air</u>			<u>05 09 17</u>	<u>0935</u>		<u>X</u>		<u>1</u>																																							
<u>Influent</u>	<u>Air</u>			<u>05 09 17</u>	<u>1530</u>		<u>X</u>		<u>1</u>																																							
																	<b>Comments / Remarks</b>																															
Turnaround Time Requested (TAT) (please circle) <u>STD. TAT</u> 72 hour      48 hour 24 hour      4 day      5 day							Relinquished by: <u>[Signature]</u> Date: <u>9/17/05</u> Time: <u>1700</u> Relinquished by: _____      Date: _____      Time: _____							Received by: _____      Date: _____      Time: _____ Received by: _____      Date: _____      Time: _____																																		
Data Package Options (please circle if required) QC Summary      Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Belt Deliverable not needed WIP (RWQCB) Disk							Relinquished by: _____      Date: _____      Time: _____ Relinquished by Commercial Carrier: UPS      FedEx      Other _____ Temperature Upon Receipt _____ C°							Received by: <u>[Signature]</u> Date: <u>9/19/05</u> Time: <u>0910</u> Received by: _____      Date: _____      Time: _____ Custody Seals Intact?      Yes      No																																		

# Chevron California Region Analysis Request/Chain of Custody



610 # 959882  
For Lancaster Laboratories use only

Acc. # 10880 Sample # 4606206-11 SCR# \_\_\_\_\_

Facility #: <u>9-0019-RSL</u> Site Address: <u>210 Grand Ave Oakland CA</u> Chevron PM: <u>Mark Inglis</u> Lead Consultant: <u>Cambria</u> Consultant/Office: <u>5900 Hobbs St. Emeryville CA</u> Consultant Prj. Mgr.: <u>Brian Busch</u> Consultant Phone #: <u>(910) 420-0700</u> Fax #: <u>(910) 420-9120</u> Sampler: <u>Mike Lanning</u> Service Order #: _____ <input type="checkbox"/> Non SAR: _____							<b>Analyses Requested</b>										<b>Preservative Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> O = Other  <input type="checkbox"/> J value reporting needed <input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds  8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run ___ oxy's on highest hit <input type="checkbox"/> Run ___ oxy's on all hits			
							<b>Preservation Codes</b>													
							Total Number of Containers: _____ BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> TPH 8015 MOD GRO _____ TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup _____ 8260 full scan _____ Oxygenates _____ Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>													
Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	8021	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	7421	<b>Comments / Remarks</b>	
<u>Influent</u>	<u>Air</u>			<u>05 09 18</u>	<u>815</u>		<input checked="" type="checkbox"/>													
<u>Influent</u>	<u>Air</u>			<u>05 09 18</u>	<u>1535</u>		<input checked="" type="checkbox"/>													
Turnaround Time Requested (TAT) (please circle)							Relinquished by: _____ Date: <u>9/18/05</u> Time: <u>1700</u>			Received by: _____ Date: _____ Time: _____										
<u>STD TAT</u> 72 hour      48 hour 24 hour      4 day      5 day							Relinquished by: _____ Date: _____ Time: _____			Received by: _____ Date: _____ Time: _____										
Data Package Options (please circle if required)							Relinquished by: _____ Date: _____ Time: _____			Received by: _____ Date: _____ Time: _____										
QC Summary      Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk							Relinquished by Commercial Carrier: UPS <u>FedEx</u> Other: _____			Received by: <u>[Signature]</u> Date: <u>9/20/05</u> Time: <u>0910</u>										
Temperature Upon Receipt _____ °C							Custody Seals Intact? <u>Yes</u> No													

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: \_\_\_\_\_ Sample #: \_\_\_\_\_ SCR#: \_\_\_\_\_

Facility #: 9-0019 RSL  
 Site Address: 2106 Grand Ave Oakland  
 Chevron PM: Mark Inglis Lead Consultant: Cambria  
 Consultant/Office: 5900 Hollis St. Emeryville  
 Consultant Prj. Mgr.: Brian Busch  
 Consultant Phone #: (510) 470-0700 Fax #: (510) 470-9170  
 Sampler: Mike Lanning  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Analyses Requested												
Preservation Codes												
Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/>	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>				

**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

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260 <input type="checkbox"/> 8021 <input checked="" type="checkbox"/>	TPH 8015 MOD GRO	TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420 <input type="checkbox"/> 7421 <input type="checkbox"/>
Influent	Ar			05 09 16	910		X		1	X	X				
Influent	Ar			05 09 16	1615		X		1	X	X				

**Comments / Remarks**

<b>Turnaround Time Requested (TAT) (please circle)</b> (STD TAT) 24 hour      72 hour      48 hour      5 day		Relinquished by: <u>M Lanning</u> Date: <u>9-16-05</u> Time: <u>1700</u>		Received by: _____      Date: _____      Time: _____	
Data Package Options (please circle if required) QC Summary      Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk		Relinquished by: _____      Date: _____      Time: _____		Received by: _____      Date: _____      Time: _____	
Relinquished by Commercial Carrier: UPS      FedEx      Other _____			Received by: _____		
Temperature Upon Receipt _____ C°			Custody Seals Intact?      Yes      No		

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.

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: \_\_\_\_\_ Sample #: \_\_\_\_\_ SCR#: \_\_\_\_\_

Facility #: 9-0019 - RSL  
 Site Address: 210 Grand ave Oakland  
 Chevron PM: Mark Ingalls Lead Consultant: Cambridge  
 Consultant/Office: 5900 Hollis St Emeryville CA  
 Consultant Prj. Mgr.: Brian Busch  
 Consultant Phone #: (510) 420-0700 Fax #: (510) 420-9170  
 Sampler: Mike Lumley  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Analyses Requested											
Preservation Codes											
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><input type="checkbox"/> BTEX + MTBE 8260 <input checked="" type="checkbox"/> 8021</p> <p><input type="checkbox"/> TPH 8015 MOD GRO</p> <p><input type="checkbox"/> TPH 8015 MOD DRO <input type="checkbox"/> Silica Gel Cleanup</p> <p><input type="checkbox"/> 8260 full scan</p> <p><input type="checkbox"/> Oxygenates</p> <p><input type="checkbox"/> Lead 7420 <input type="checkbox"/> 7421</p> </div> <div style="width: 50%;"> <p><b>Preservative Codes</b></p> <p>H = HCl      T = Thiosulfate                      N = HNO<sub>3</sub>    B = NaOH                      S = H<sub>2</sub>SO<sub>4</sub>    O = Other</p> <p><input type="checkbox"/> J value reporting needed</p> <p><input type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds</p> <p>8021 MTBE Confirmation</p> <p><input type="checkbox"/> Confirm highest hit by 8260</p> <p><input type="checkbox"/> Confirm all hits by 8260</p> <p><input type="checkbox"/> Run ___ oxy's on highest hit</p> <p><input type="checkbox"/> Run ___ oxy's on all hits</p> </div> </div>											

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421
Influent	Air			05 09 17	1935		X		1	X	X					
Influent	Air			05 09 17	1530		X		1	X	X					

**Comments / Remarks**

<b>Turnaround Time Requested (TAT)</b> (please circle) <del>STD TAT</del> 72 hour      48 hour 24 hour      4 day      5 day	Relinquished by: <u>[Signature]</u>	Date	Time	Received by:	Date	Time
	Relinquished by:	Date	Time	Received by:	Date	Time
	Relinquished by:	Date	Time	Received by:	Date	Time
	Relinquished by Commercial Carrier:	Received by:			Date	Time
<b>Data Package Options</b> (please circle if required) QC Summary <input type="checkbox"/> Type I - Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk	UPS      FedEx      Other _____ Temperature Upon Receipt _____ C°	Custody Seals Intact?		Yes	No	

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: \_\_\_\_\_ Sample #: \_\_\_\_\_ SCR#: \_\_\_\_\_

Facility #: 9-0019- KSL  
 Site Address: 210 Grand ave Oakland CA  
 Chevron PM: Mark Inglis Lead Consultant: Cambria  
 Consultant/Office: 5900 Hollis St. Emeryville CA  
 Consultant Prj. Mgr.: Brian Busch  
 Consultant Phone #: 510)420-0700 Fax #: 510)420 9170  
 Sampler: Mike Lanning  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

## Analyses Requested

### Preservation 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

Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month Day	Time Collected	New Field Pt.	Grab	Composite	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	8260 full scan	Oxygenates	Lead 7420	7421
Inherent	Air			05 09 13	815		X		1	X	X					
Inherent	Air			05 09 18	1535		X		1	X	X					

**Comments / Remarks**

<b>Turnaround Time Requested (TAT)</b> (please circle) SID TAT: 72 hour      48 hour 24 hour              4 day              5 day	Relinquished by: <u>[Signature]</u>	Date: <u>9-10-05</u>	Time: <u>1700</u>	Received by: _____	Date: _____	Time: _____
	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
	Relinquished by Commercial Carrier: _____	Received by: _____	Date: _____	Time: _____		
<b>Data Package Options</b> (please circle if required) QC Summary      Type I: Full Type VI (Raw Data) <input checked="" type="checkbox"/> Coelt Deliverable not needed WIP (RWQCB) Disk	UPS      FedEx      Other _____ Temperature Upon Receipt _____ C°	Custody Seals Intact?    Yes    No				