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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
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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

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.



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

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No. 7820 E×ρ. 1/08

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

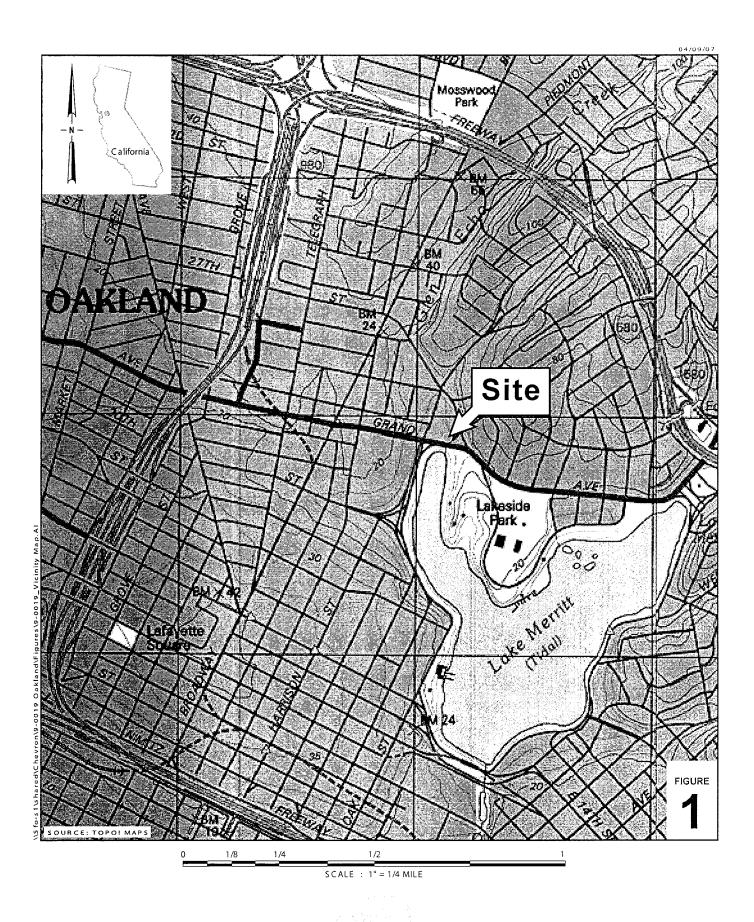
2 – Laboratory Analytical Reports

cc:

Tom Bauhs, Chevron Environmental Management Company

Ron Basarich, City of Oakland

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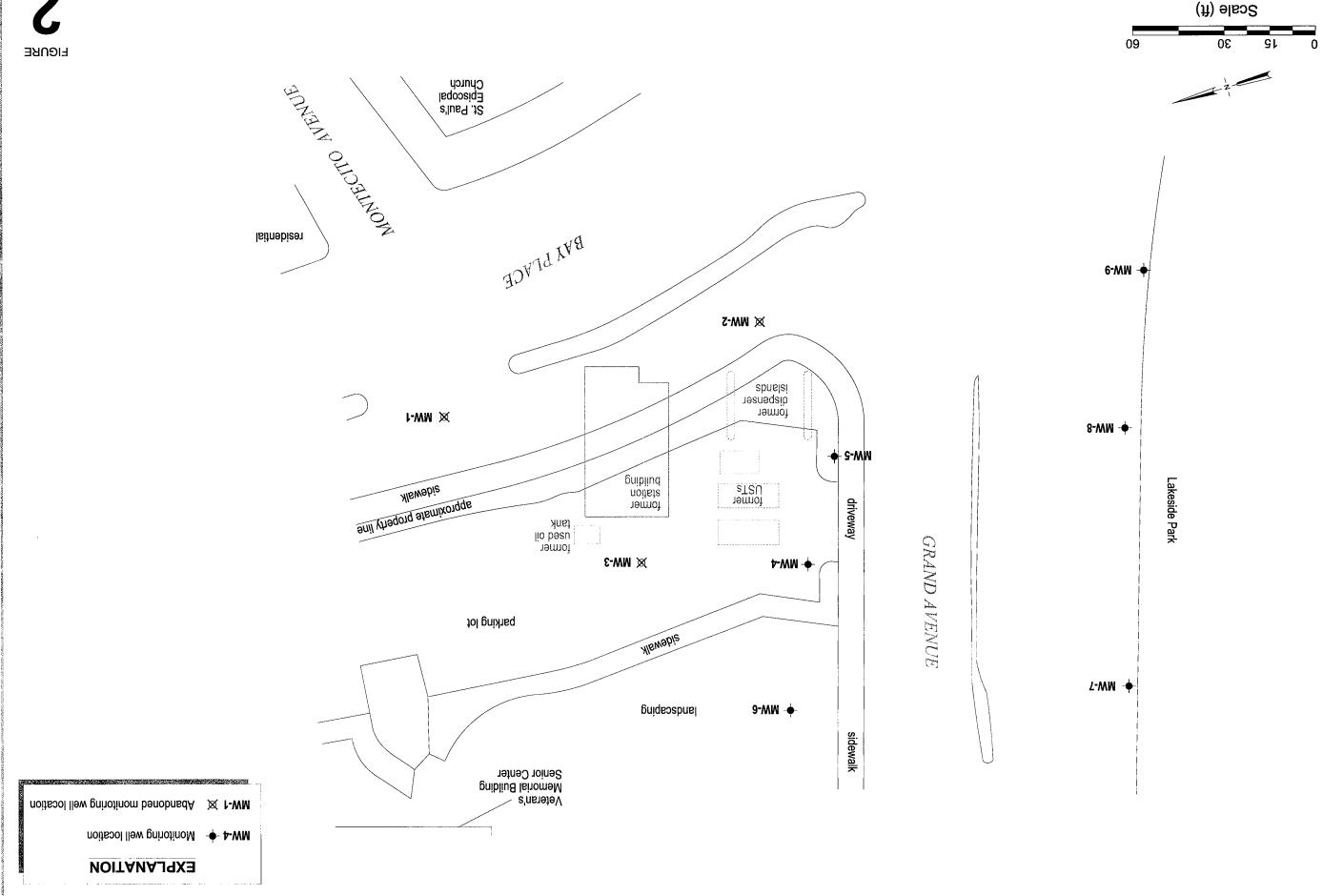


Former Chevron Station 9-0019

Vicinity Map

Site Plan

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



Basemap modified from drawing provided by Gettler-Ryan

Figure 3: Soil Vapor Extraction Rate vs. Time

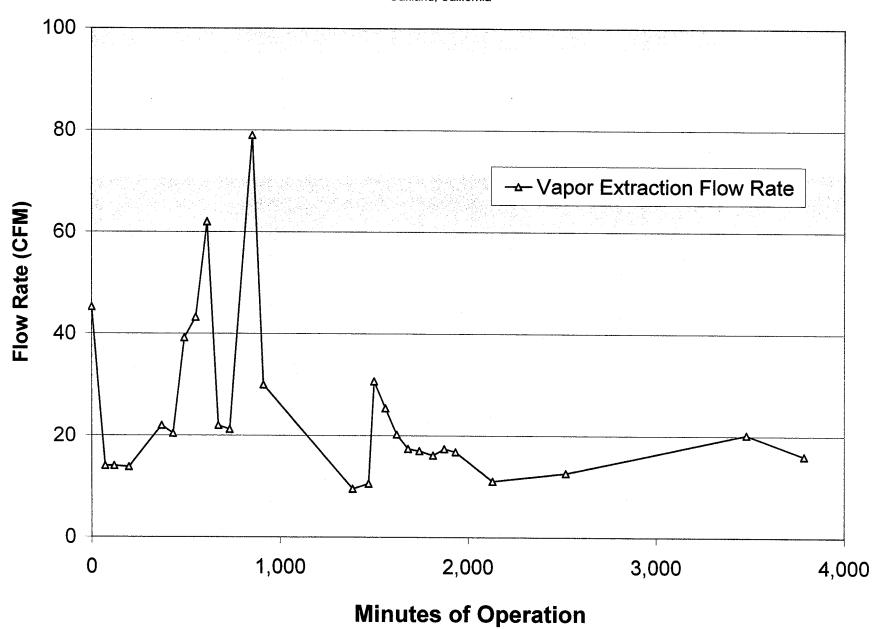


Figure 4: Vapor Concentrations vs. Time

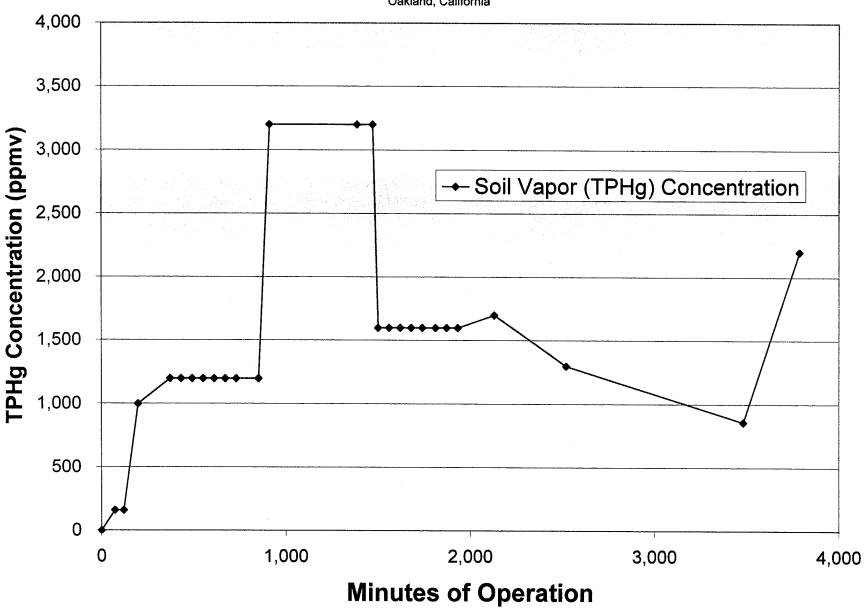


Figure 5: Mass Removal Rate vs. Time

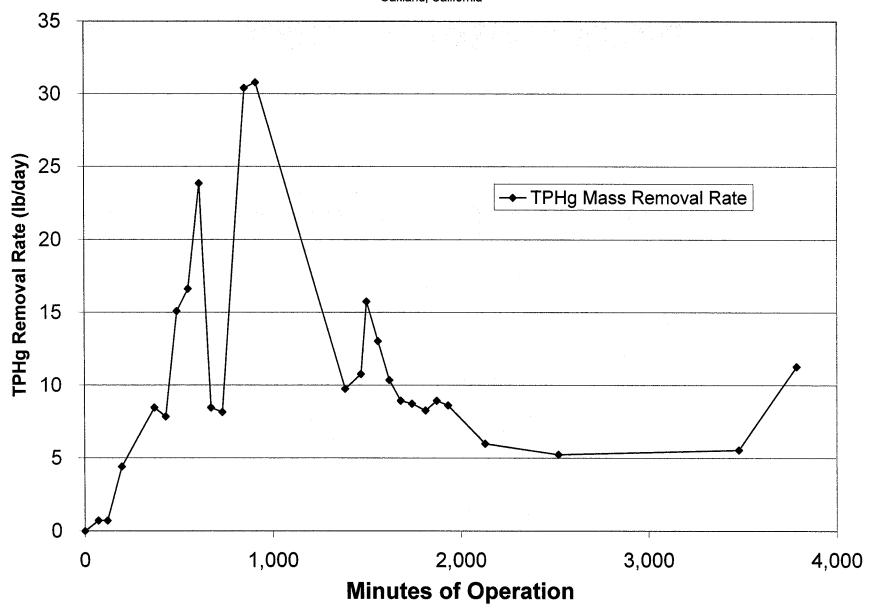


Figure 6: Vacuum Data

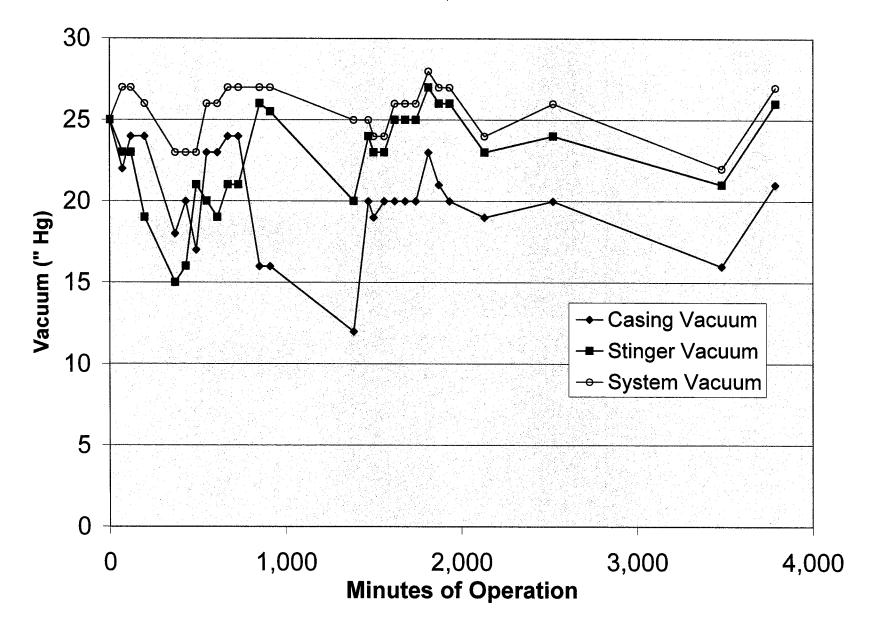


Table 1. TPE Performance Data. Former Chevron Service Station 9-0019, 210 Grand Avenue Oakland, CA.

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 (ppniv)	FID Concentration ² (ppmv)	Hydrocarbon Removal Rate' (lbs/day)	Cumulative Hydrocarbon Remova (lbs)
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09/14/05	12:15	MW-5	210.0	Test Start	0	45.2	25	25	25	0	305	0.0	
11	13:25	MW-5	211.2	72	72	14.0	27	23	22	160	800	0.7	0.0
н	14:20	MW-5	212.0	48	120	14.0	27	23	24	160	751	0.7	0.1
н	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
u u	9:00	MW-5	218.2	60	492	39.2	23	21	17	1,200	1,330	15.1	2.3
u	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
11	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
н	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
u	10:00	MW-5	236.0	60	1,560	25.4	24	23	20	1,600	1,120	13.0	13.2
n	11:00	MW-5	237.0	60	1,620	20.2	26	25	20	1,600	1,205	10.4	13.6
и	12:00	MW-5	238.0	60	1,680	17.4	26	25	20	1,600	1,260	8.9	14.0
n	13:00	MW-5	239.0	60	1,740	17.0	26	25	20	1,600	1,586	8.7	14.4
н	14:00	MW-5	240.2	72	1,812	16.1	28	27	23	1,600	1,242	8.3	14.8
n	15:00	MW-5	241.2	60	1,872	17.4	27	26	21	1,600	1,260	8.9	15.1
п	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
n	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
u	15:30	MW-5	273.1	306	3,786	16.0	27	26	21	2,200	1,952	11.3	23.9

Notes

1 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.

"Hg = inches of mercury

cfm = cubic feet per minute

lbs = pounds

ppmv = parts per million by volume

TPE = two-phase extraction

Average Mass Removal Rate =

9.1

² 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 fi³) x molecular weight (86 lb/lb-mole for TPH-Gas hexane) x 1440 min/day x 1/1,000,000.

Conestoga-Rovers and Associates

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

Sample	Sampling	Sampling	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
ID	Date	Time		(concentration	s reported in par	ts per million by vo	lume, ppm(v))	
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

ppm(v) = Parts per million by volume

< x =Not detected above method detection limit

Conestoga-Rovers and Associates

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

		MW	-5	MW	-4	MW-6		
Date	Time	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	
11	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	
11	15:45	14.5	9.50	4.45	0.13	5.66	0.04	

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

 $\mathbf{E}_{\mathbf{a}}^{\mathbf{b}}\mathbf{C}\mathbf{A}\mathbf{M}\mathbf{B}\mathbf{R}\mathbf{I}\mathbf{A}$

Project Name: 0-0016	Project # Date: 9-14-05	1
Extraction Equipment:	Vapor Analyzer:	Sheet of
Flow meter model:	Extraction Type: TPE or DPE	

	Test Well	Time / System Hour	System	System	System	System HC Conc.	Dilution Flowrate	Stinger	Well	GW Flow	Instantaneous		DTW and Vac	cuum in Obse	rvation Wells	
ᆼ	(with stinger or pump	Meter (brs)	Flowrate(cfin)	Vacuum ("Hg)	hilet Temp.	influent	(%)	Vacuum ("Hg)	Casing Vacuum	Totalizer (gallons)	Flowrate at knock-out		Distance	from Test Wo	ell (feet)	
TECH	depth)	(2.1)	Display/	At manifold	(F)	(ppmv) With FID			("Hg)		chamber (gpm)		1		T T	
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TPE/DPE PILOT TEST DATA CAMBRIA

Project Name: 4-0019	Project #	Date: 9-15-05		~
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Flow meter model:	Extraction Type: TPE o	r DPE		

	Test Well (with stinger	Time / System Hour	System Flowrate(cfm)	System Vacuum	System Injet	System HC Corc.	Dilution Flowrate	Stinger Vacuum	Well Casing	GW Flow Totalizer	instantaneous Flowrate at		DTW and Va	cunum in O	bservation	Wells	
	or pump depth)	Meter (brs)		("Hg)	Temp. (F)	hafluent	(%)	("Hg)	Vacuum ("Hg)	(amolleg)	knock-out chamber		Distance	from Test	Well (fee	0	L
	ocpui)		Display/ Anemometer	At manifold	"/	(ppmv) With FID	ļ		(iig)		(Shou)				T		<u> </u>
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	MW-5			Uni	10	ST T	esta	of U	nit								
3	@9 ₁ 5'																
_	700	216.2	22.0	23	1455	960	100%	15	18	0		طما	Samolo	@	715	IN	F
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TPE/DPE PILOT TEST DATA CLASS CONTROL OF THE PILOT TEST DATA

Project Name: 9-0019	Project # Date:9-15-05	
Extraction Equipment:	Vapor Analyzer:	
Flow meter model:	Extraction Type: TPE or DPE	

Sheet _____ of _____

	Test Well (with stinger	Time / System Hour Meter	System Flowrate(cfm)	System Vacuum	System Inlet	System HC Conc.	Dilution Plowrate	Stinger Vacuum	Well Casing	GW Flow	instantaneous Flowrate at		DTW and V	accum in Obse	rvation Wells	
AUTO TECH	or pump depth)	(Jus)	Display/	("Hg) At	Temp. (F)	Influent	(%)	("Hg)	Vacumn ("Hg)	(2nollsg)	knock-out chamber		Distant	ce from Test W	ell (feet)	<u> </u>
5			Anemometer	manifold		(ppmv) With FID			. 0		(gpm)					
. 1				_									DTW (ft)	Wellhead Vac	oum ("H ₂ O)	
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ᆚ	1200	221.2	22	27	1542	1680	100%	21	24	0						
							Chorcel			,		-			1	
Į	1300	298.2	21.2	27	1500	1833	100%	21	24	0						
							closed									
	1500	224.2	79	27	1286	2596	100°6	26	16	0						
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TPE/DPE PILOT TEST DATA

CAMBRIA

	Test Well (with stinger	Time / System Hour	System Flowrate(cfm)	System Vacuum	System Inlet	System HC Conc.	Dilution Flowrate	Stinger Vacuum	Well GW F		Instantaneous Flowrate at		DTW and V	acuum in Obs	ervation Wells	
TECH	or pump depth)	Meter (brs)	Display/	("Hg) At	Temp. (F)	Influent	(%)	("Hg)	Vacuum ("Hg)	(galkons)	knock-out chamber		Distan	ce from Test W	/all (feet)	
	• •		Anemometer	manifold		(ppmv) With FID			 .		(gpm)			T		
, AUTO													DTW (ft)	Wellhead Vac	mu ("H ₇ O)	
HINKLEY	MW-5				Uni	4 of	Res	tout	tim							
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TPE/DPE PILOT TEST DATA CAMBRIA

Project Name: 9-0019	Project # Date: 9-16-05	
Extraction Equipment:	Vapor Analyzer:	Sheet 5 of
Flow meter model:	Extraction Type: TPE or DPE	Direct 01

	Test Well (with stinger	Time / System Hour	System Flowrate(cfm)	System Vacuum	System Inlet	System HC Cooc.	Dilution Flowrate	Stinger Vacuum	Well Casing	GW Flow Totalizer	Instantaneous Howrate at		DTW and Vaccoum in Observation Wells			
TECH	or brown (were senden	Meter (brs)		("Hg) At	Temp. (F)	Influent	(%)	("Hg)	Vacuum ('Hg)	(gallons)	knock-out chamber		Distanc	e from Test W	cll (feet)	ļ
	•		Display/ Anemometer	manifold		(ppmv) With FID			``		(gpm)				T	
/ AUTO											، د		DTW (ft) /	Wellhead Vac	cum ("H _z O)	
HINKLEY	MW-S															
Z H	29.5															
ㅗ	1300	2390	17.0	26	1560	1586	99%	25	20	32775						
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TPE/DPE PILOT TEST DATA

CAMBRIA

Project Name: 9-0019	Project # Date: 4-17-05	
Extraction Equipment:	Vapor Analyzer:	Sheet of
Flow meter model:	Extraction Type: TPE or DPE	<u> </u>

	Test Well	Time / System Hour	Hour Flowrate(cfm)	System Vacuum	System Inlet	System HC Cone.	Dilution Flowrate	Stinger Vacuum	Well Casing	GW Flow Totalizer	Instantaneous Flowrate at		DTW and Va	acuum in Obse	rvation Wells	
AUTO TECH	or pump depth)	Meter (hrs)	Display/	("Hg)	Temp. (F)	influent (ppmv)	(%)	("Hg)	Vacuum ("Hg)	(gallous)	knock-out chamber		Distano	e from Test We	all (feet)	
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TPE/DPE PILOT TEST DATA CAMBRIA

Project Name: 4-0019	Project # Date: 9-18-05	
Extraction Equipment:	Vapor Analyzer:	Sheet of
Flow meter model:	Extraction Type: TPE or DPE	

	Test Well	Time / System Hour	System	System		System	Dilution Flowrate	Stinger	Well	GW Flow	Instantaneous		DTW and Va	cumm in Obser	yation Wells	
_	(with stinger or pump	Meter	Flowrate(cfm)	Vacuum ("Hg)	Indet Temp.	HC Conc. Influent	(%)	Vacuum ("Hg)	Casing Vacuum	Totalizer (gallons)	Flowrate at knock-out		L	<u> </u>		
AUTO TECH	depth)	(prz)	Display/	Αt	(P)	(ppmv)		, -	("Hg)		chamber (gpm)		Distance	from Test We	ll (feet)	
0			Anemometer	manifold		With FID					(gpu)		<u> </u>	<u> </u>		L
										`			DTW (ft) /	Wellhead Vacu	aan ("H _r O)	
\neg	mws															
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X	800	<i>2</i> €8,0	20.2	22	1553	1120	992	81	16	33117		Levs	Samo	e 815	INF	
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	Character Mark	ADVE-cent Data Sheet -	- Bring Version	Pa	phon	u (8)	35%	wa	M Ma							

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-44	10:00	/	4,32		13.65	
MW-5	10:15	•	5.0		9,70	
MW-6	9:30		5,6Z		7,80	
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						·
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Project Name: 9.0019	Project Number:
Measured By: BC	Date: 9-14-05
· · ·	PRE-TEST

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:	

Project Number: Date:	9-1	14-03
2000		PM- after start u

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 Before Start up
MW-4	9:30	0.0				•
MW-5						
MW-G	9:15	011				
			•	ب ند ب		
_						

Project Name:	9-	001	9
Measured By:		BC	

Project Number:			
Date:	7/15	105	
	7		

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-4	1610		4.33		13.65	
Mw-6	1615		5,67		7,80	
			<u> </u>			

Project Name:		Project Number:	
Measured By:	pm-after restort	Date: 4-16-05	
	i m am		

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
mw-y	1645		4.33		13.65	
WM-9 WM-4	1650		4.33		7.80	·
						·
				<u> </u>		
			<u> </u>		<u> </u>	1

Project Name:	^	Project Number:
Measured By:	$\mathcal{O}\mathcal{U}$	Date: 17-05
Moderated Dy.	`X .	

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-4	0800		4.34		13.65	
MW-4 MW-6	0805		5.66		7.80	
		<u> </u>				
ì						

Project Name: 7.0019	• •	Project Number:
Measured By:	Blus	Date: 4-18-05

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

Project Name: 9-0019	Project Number:
Measured By:	Date: 9-18-05
Wicasuro Dy.	and

ATTACHMENT 2 LABORATORY ANALYTICAL REPORTS



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.

Client Description			Lancaster Labs Number
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

Michele J. Smith

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

Respectfully Submitted,

Michele J. Smith Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4604314

Effluent-A-050914

Grab

Tedlar Bag CETR

Facility# 90019

T0600100313 Effluent

210 Grand Ave Oakland 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 Method Detection Limit	Units	Dilution Factor
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
Laboratory	Curonicie

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



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4604315

Influent-A-050914 Facility# 90019

Grab

Tedlar Bag

CETE

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 Method Detection Limit	Units	Dilution Factor
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

Tah	oratory	Chron	1010
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CAT		Analysis				Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modified	d 1	09/24/2005 01:20	Douglas Graham	1
07045	MTBE	EPA Method 18 modified	d 1	09/24/2005 01:20	Douglas Graham	1
07059	BTEX	EPA Method 18 modified	d 1	09/24/2005 01:20	Douglas Graham	1



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4604316

Influent-A-050914 Facility# 90019

Grab

Tedlar Bag 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

ChevronTexaco

6001 Bollinger Canyon Rd L4310 San Ramon CA 94583

Discard: 10/27/2005

CAT			As Received	As Received Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
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	(v) mag	1
07064	Toluene	108-88-3	20.	0.8	(v) mgg	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

	Edboracory Cirronicre					
CAT		Analysis pil				
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modifi	led 1	09/24/2005 01:51	Douglas Graham	1
07045	MTBE	EPA Method 18 modifi	.ed 1	09/24/2005 01:51	Douglas Graham	1
07059	BTEX	EPA Method 18 modifi	.ed 1	09/24/2005 01:51	Douglas Graham	1



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Page 1 of 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

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: M052681ZA	Sample n	umber(s):	4604314-46	04316				
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.



For Lancaster Laboratories use only 3/
Acct. #: 10880 Sample #: 4604314-16 SCR#:

Facility of 1001	~	············											1	nal	yses	Requ	ıeste	d	<u> </u>]		1
Facility #: 6-001 Site Address: 210	600	and o	2005	2 Oak	land					E	L			res	erva	tion (ode	s			Prese	rvative Co	odes iosulfate
Chevron PM: Now		malor	l ead i	Consultant: (To laws	a						Sifica Gel Cleanup									$N = HNO_3$ $S \stackrel{?}{=} H_2SO_4$	B = Na O = Ot	iOH 📑
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Consultant Prj. Mgr.:	2016	70-70	<u> </u>	<u>h</u>	->				Cont	72 72		SE SE									Must meet possible for	lowest dete 8260 com	ection limit pounds
Consultant Phone #: 5	OVIN	wha		_Fax#:_ <u>5#</u>	2)420-	9178				8260	680 800	용		92	7421						8021 MTBE C	onfirmation	1
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Field Point Name	Matrix	Repeat Sample	Top Depth	Year Month D	Time	New Field Pt	Grab	Composite	Total Number	BTEX + MTBE	TPH 8015 MOD	TPH 8015 MOD	8260 full scan	ð	Lead 7420 [☐Run o	xy's on hig	hest hit
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Data Package Options (p QC Summary Type	olease ci		red)		Relinquishe	d by:				_	\	D	ate	. Ti	me	Rece	eived i	by:				Date	Time
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	 				Temperature	Upon Rece	ipt_	<u>©</u>	(A)	_c°						Custo	ody S	eals (ntact	<u>ن</u>). ?	Yes No	wi	

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.



Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
meq	millieguivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
mĬ	milliliter(s)	Ī	liter(s)
m3	cubic meter(s)	ul	microliter(s)

- < 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
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Inorganic Qualifiers

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

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

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

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

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717	Where quality is a	science.

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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.

Client Description			Lancaster Labs Number
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



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Page 1 of 1

4604317 Lancaster Laboratories Sample No. AQ

Influent-A-050915

Grab

Tedlar Bag

Facility# 90019

210 Grand Ave Oakland

T0600100313

Collected:09/15/2005 07:15

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 Method Detection Limit	Units	Dilution Factor
06864	C2-C10 Hydrocarbons hexane	n.a.	1,200.	1.0	ppm(v)	1
07045	MTBE	1634-04-4	140.	0.40	ppm(v)	1
07059	BTEX					
07063	Benzene	71-43-2	10.	0.5	ppm(v)	1
07064	Toluene	108-88-3	10.	0.8	ppm(v)	1
07065	Ethylbenzene	100-41-4	4.	0.4	ppm(v)	1
07068	Xylene (total)	1330-20-7	9.	0.7	ppm(v)	1

State of California Lab Certification No. 2116

Laboratory	Chronicle
Laboratory	CITTOTITOTE

CAT			y CIIIO.	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06864	C2-C10 Hydrocarbons hexane	EPA Method 25 modif	ied 1	09/24/2005 02:21	Douglas Graham	1
07045	MTBE	EPA Method 18 modif	ied 1	09/24/2005 02:21	Douglas Graham	1
07059	BTEX	EPA Method 18 modif		09/24/2005 02:21	Douglas Graham	1



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4604318

Influent-A-050915 Facility# 90019

Grab

CETR T0600100313 Influent

210 Grand Ave Oakland

Collected:09/15/2005 16:15 by ML

Account Number: 10880

Submitted: 09/16/2005 08:55

ChevronTexaco

Reported: 09/26/2005 at 19:49

6001 Bollinger Canyon Rd L4310

Discard: 10/27/2005

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection	Units	Dilution Factor
06864 07045	C2-C10 Hydrocarbons hexane	n.a.	3,200.	Limit 1.0	ppm(v)	1
07045	BTEX	1634-04-4	340.	0.40	ppm(v)	1
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		Laboratory C	111 01	Analvsis		Dilution
No.	Analysis Name	Method Tr	ial#	Date and Time	Analyst	Factor
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



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Page 1 of 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

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: M052681ZA MTBE Benzene Toluene Ethylbenzene Xylene (total)	Sample num N.D. N.D. N.D. N.D. N.D. N.D.	nber(s): 4 0.40 0.5 0.8 0.4 0.7	604317-460 ppm(v) ppm(v) ppm(v) ppm(v) ppm(v)	94 94 99 99 107		50-146 55-143 46-159 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.



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Acct. #: 10880	Sample #: _	4604318	SCR#:	
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	Analy	ses Requested		

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Explanation of Symbols and Abbreviations

Inorganic Qualifiers

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

- < 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
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- **Dry weight basis**Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic	Qualifiers
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A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quantitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" sample="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	W *	Post digestion spike out of control limits Duplicate analysis not within control limits
U X,Y,Z	Compound was not detected Defined in case narrative	+	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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717	Where quality is a science.

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	WIP (RWQCB)	ype vi (Naw Data)Coeit Deliverable flot fleeded										'		D	, ·		Date Time									
	Disk	•				Temperature	Upon Red	ceipt_			c	,0					С	usto	ly Se	als I	ntact?	,	Yes 1	No	-	



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

Client Description			<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



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

Respectfully Submitted,

Michele J. Smith

Group Leader



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4606206

Influent-A-050916 Facility# 90019

210 Grand Ave Oakland

Tedlar Bag

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			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	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				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
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



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Page 1 of 1

Lancaster Laboratories Sample No. AQ 4606207

Influent-A-050916

Grab

Tedlar Bag

Facility# 90019

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 Discard: 11/17/2005

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	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	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

		Edword dory of				
CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
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



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Lancaster Laboratories Sample No. AQ 4606208

Influent-A-050917 Facility# 90019

Grab

Tedlar Bag

T0600100313 Influent

210 Grand Ave Oakland

by ML

Account Number: 10880

Collected:09/17/2005 09:35

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			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
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	Chronial	_
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CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
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



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Lancaster Laboratories Sample No. AQ 4606209

Influent-A-050917 Facility# 90019

Tedlar Bag

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			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	\mathtt{MDL}	Units	DF
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				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
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



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4606210 Lancaster Laboratories Sample No. AQ

Influent-A-050918

Tedlar Bag

Facility# 90019

210 Grand Ave Oakland

T0600100313 Influent

Collected: 09/18/2005 08:15

by ML

Account Number: 10880

Submitted: 09/20/2005 09:10

Reported: 10/17/2005 at 22:32

Discard: 11/17/2005

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	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

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CAT	Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	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		09/26/2005 15:46	David I Ressler	1
07059	BTEX	EPA Method 18 modified		09/26/2005 15:46	David I Ressler	1



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Lancaster Laboratories Sample No. AQ 4606211

Influent-A-050918

Grab

Tedlar Bag

Facility# 90019 210 Grand Ave Oakland

T0600100313 Influent

Collected:09/18/2005 15:35

by ML

Account Number: 10880

Submitted: 09/20/2005 09:10

 ${\tt ChevronTexaco}$

Reported: 10/25/2005 at 10:30

6001 Bollinger Canyon Rd L4310

Discard: 11/25/2005

San Ramon CA 94583

CAT			As Received Final			As Received Final			
No.	Analysis Name	CAS Number	Result	MDL	Units	Result	MDL	Units	DF
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
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CAT	Analysis					
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
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		09/26/2005 16:17	David I Ressler	1
		EPA Method 18 modified		09/26/2005 16:17	David I Ressler	1
07059	BTEX	DIA MECHOA IS MOAILICA	-	,,		



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Page 1 of 1

Quality Control Summary

Client Name: ChevronTexaco

Reported: 10/25/05 at 10:56 AM

a batch level, a LCS/LCSD was performed, unless otherwise specified in the

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

method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	RPD Max
Batch number: M052701ZA C2-C10 Hydrocarbons hexane MTBE Benzene Toluene Ethylbenzene Xylene (total)	Sample nur N.D. N.D. N.D. N.D. N.D. N.D.	1.0 0.40 0.5 0.8 0.4 0.7	.606206-460 ppm(v) ppm(v) ppm(v) ppm(v) ppm(v) ppm(v)	88 103 79 84	210-46062	50-146 55-143 46-159 47-165		
Batch number: M052901ZB C2-C10 Hydrocarbons hexane MTBE Benzene Toluene Ethylbenzene Xylene (total)	Sample num N.D. N.D. N.D. N.D. N.D. N.D.	nber(s): 4 1.0 0.40 0.5 0.8 0.4 0.7	\$606209 ppm(v) ppm(v) ppm(v) ppm(v) ppm(v) ppm(v)	90 100 118 120		50-146 55-143 46-159 47-165		

*- Outside of specification

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

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

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Lancaster Laboratories			Acct. #: 10880	sample#:sc	R#:
Where quality is a science.		•	** **	Analyses Requested	

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412	Lancaster Laboratories Where quality is a science
77	Where quality is a science.

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43	Lancaster	Laboratories
	Where quality is a	

For Lancaster Lateratories use only

Acct. # 10880 Sample # 4606206-// SCR#:

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Site Address: 210 Grand and Chil	Gland US		-		dnue							N = HNO ₃	T = Thiosu B = NaOH O = Other	
Consultant/Office: 5909 Hollis St. Gave Consultant Prj. Mgr.: Bytan Bysan Consultant Phone #: 510) 42-0-0700 Fax #: 510) Sampler: Myl anning Service Order #: 0 Non SAR:	~ ~ ~	Grab Cómposite	= 1	BTEX+MIBE 8260 N 8021 LTTPH 8015 MOD GRO	TPH 8015 MOD DRO Silica Gel Cleanup	8260 full scan	enates	7420 🗆 7421 🗀				☐ J value reporting ☐ Must meet low possible for 82 8021 MTBE Com ☐ Confirm higher ☐ Confirm all hits ☐ Run oxy	rest detection 260 compour firmation st hit by 826 s by 8260	nds 60
Field Repeat Top	Time New	Grab	Total		표	3260 ft	$ \check{\ } $	Lead 7				Run oxy		
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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 Where quality is a	Labor	<u>atories</u>						A	cct. #	:			_ S	F ampl		anca	ster	Labor	atorie	es use	only	/ SCR#:		
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Chevron PM: WWW	J. 100°)''> 	Lead C	Consultant:	(com	bria	110			ers			Se									☐ J value reporti	ng needed	
Consultant/Office:	1700	17011	15	<u>> </u>	Inx	eryun	14_			Total Number of Containers	8260 🕅 8021 🗆		Silica									☐ Must meet low possible for 82	est detect	ion limits
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Service Order #:	ld Repeat Top								l gu		≥ + ×	8015	8015	8260 full scan	ð	Lead 7420						Run oxy		
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