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Alameda County
Environmental Health

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Marketing Business Unit

**Chevron Environmental
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June 4, 2009

Mr. Jeff Carson
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, California 94580

Subject: Former Chevron Service Station No. 9-0260
21995 Foothill Boulevard
Hayward, CA
Permit No. 007-03

Dear Mr. Carson:

During the current reporting period, the groundwater treatment and extraction system at the site referenced above operated in compliance with the conditions specified in the Oro Loma Sanitary District Wastewater Discharge Permit No. 007-03.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Sincerely,

A handwritten signature in black ink, appearing to read "Aaron Costa".

Aaron Costa
Project Manager



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
www.CRAworld.com

June 4, 2009

Reference No. 311915

Mr. Jeff Carson
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, California 94580

Re: Monthly Discharge Report – May 2009
Former Chevron Service Station #9-0260
21995 Foothill Boulevard
Hayward, California
Permit No. 007-03

Dear Mr. Carson:

Conestoga-Rovers & Associates (CRA) prepared this document on behalf of Chevron Environmental Management Company (Chevron). This report was prepared in accordance with the requirements of the wastewater discharge permit. During the current reporting period, the remediation system at the subject site operated in compliance with the Special Wastewater Discharge Permit.

SELF-MONITORING REPORT – MAY 2009

REPORTING PERIOD ACTIVITIES

- CRA changed-out the carbon in the first two carbon vessels in series on May 11, 2009. The groundwater extraction system was turned back on the same day.
- CRA conducted routine operation and maintenance on May 11, May 13, May 14, May 19, May 21, May 27, and May 28, 2009.
- CRA collected an effluent pH reading on May 11, 2009 and effluent compliance samples on May 14, 2009.
- CRA prepared this document, which includes tabulated operational and sample analytical data (Tables 1, 2, and 3). Laboratory analytical reports are included as Appendix A.

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**CONESTOGA-ROVERS
& ASSOCIATES**

June 4, 2009

Reference No. 311915

REPORTING PERIOD DATA SUMMARY (4/30/09 TO 5/28/09)

Compliance Sampling Frequency	<u>Monthly</u>
Initial Totalizer Reading	<u>903,200 gallons</u>
Final Totalizer Reading	<u>969,300 gallons</u>
Discharged Volume	<u>66,100 gallons</u>
Average Discharge Flow Rate	<u>2.74 gallons per minute</u>
Maximum Discharge Flow Rate	<u>3.07 gallons per minute</u>
Discharge Violations or Exceedances	<u>None</u>

If you have any questions regarding the contents of this document, please call Jeff Schrupp at (510) 420-3362 or Casey Sanders at (916) 751-4118.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Casey Sanders

CS/doh/12
Encl.

Table 1	Influent and Effluent Fuel Concentrations
Table 2	System Operational Data
Table 3	Effluent Compliance Results

cc: Mr. Aaron Costa, Chevron Environmental Management Company

TABLES

Table 2: Groundwater Extraction and Treatment System
Operational Data
Former Chevron Station # 9-0260
21995 Foothill Boulevard, Hayward, California

Date (mm/dd/yy)						TPHg			Benzene			MTBE			Notes
	Hour Meter (hours)	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume Discharged (gal)	TPHg Concentration (µg/L)	Period Removal ⁵ (pounds)	Cumulative Removal (pounds)	Benzene Concentration (µg/L)	Period Removal ⁵ (pounds)	Cumulative Removal (pounds)	MTBE Concentration (µg/L)	Period Removal ⁵ (pounds)	Cumulative Removal (pounds)	
06/25/07	NA	211	0	0.00	0	34,000	0.0	0.0	2,000	0.00	0.00	92	0.00	0.00	
07/16/07	NA	211	0	0.00	0		0.0	0.0		0.00	0.00		0.00	0.00	
07/17/07	NA	7,524	7,313	4.51	7,313	42,000	2.6	2.6	1,700	0.10	0.10	57	0.00	0.00	3
07/26/07	NA	9,422	1,898	1.17	9,211	57,000	0.9	3.5	1,800	0.03	0.13	51	0.00	0.00	
08/03/07	NA	10,947	1,525	0.13	10,736		0.7	4.2		0.02	0.16		0.00	0.00	
08/16/07	NA	12,100	1,153	0.06	11,889		0.6	4.8		0.03	0.18		0.00	0.01	
08/17/07	NA	15,500	3,400	2.36	15,289	65,000	1.8	6.7	2,800	0.08	0.26	74	0.00	0.01	
08/22/07	NA	18,700	3,200	0.44	18,489	44,000	1.2	7.8	2,100	0.06	0.32	56	0.00	0.01	
08/24/07	NA	22,800	4,100	1.42	22,589		1.5	9.3		0.07	0.39		0.00	0.01	
08/29/07	NA	24,810	2,010	0.28	24,599	43,000	0.7	10.1	2,000	0.03	0.42	53	0.00	0.01	
09/18/07	NA	26,700	1,890	0.07	26,489		0.7	10.7		0.03	0.45		0.00	0.01	
09/21/07	NA	29,900	3,200	0.74	29,689		1.1	11.8		0.05	0.50		0.00	0.01	
09/26/07	NA	39,700	9,800	1.36	39,489	42,000	3.4	15.3	1,800	0.15	0.65	33	0.00	0.02	
09/27/07	NA	44,300	4,600	3.19	44,089		1.6	16.9		0.07	0.72		0.00	0.02	
10/04/07	NA	65,765	21,465	2.13	65,554	34,000	6.1	23.0	1,500	0.27	0.98	40	0.01	0.02	
10/08/07	NA	73,526	7,761	1.35	73,315	45,000	2.9	25.9	2,400	0.16	1.14	45	0.00	0.03	
10/19/07	NA	97,500	23,974	1.51	97,289	42,000	8.4	34.3	2,300	0.46	1.60	38	0.01	0.04	
10/25/07	NA	117,400	19,900	2.30	117,189		7.0	41.3		0.38	1.98		0.01	0.04	2
12/05/07	2.0	119,284	1,884	0.03	119,073	46,000	0.7	42.0	2,400	0.04	2.02	42	0.00	0.04	1
12/06/07	22.3	121,500	2,216	1.54	121,289		0.9	42.8		0.04	2.06		0.00	0.04	
12/11/07	141.8	134,679	13,179	1.83	134,468		5.1	47.9		0.26	2.33		0.00	0.05	
12/18/07	304.9	149,033	14,355	1.42	148,822	31,000	3.7	51.6	1,800	0.22	2.54	37	0.00	0.05	
12/27/07	518.7	170,809	21,776	1.68	170,598		5.6	57.3		0.33	2.87		0.01	0.06	
01/02/08	648.5	183,000	12,191	1.41	182,789		4.2	61.4		0.24	3.11		0.00	0.06	
01/03/08	666.7	185,361	2,361	1.64	185,150	41,000	0.8	62.2	2,400	0.05	3.16	35	0.00	0.06	
01/10/08	690.4	189,800	4,439	0.44	189,589		1.5	63.7		0.09	3.25		0.00	0.06	
01/11/08	718.3	197,700	7,900	5.49	197,489		2.7	66.5		0.16	3.41		0.00	0.07	
01/18/08	882.8	233,945	36,245	3.60	233,734	36,000	10.9	77.3	1,000	0.30	3.71	35	0.01	0.08	
01/23/08	1004.7	254,185	20,240	2.81	253,974		6.1	83.4		0.17	3.88		0.01	0.08	
01/30/08	1061.7	268,200	14,015	1.39	267,989		4.2	87.6		0.12	4.00		0.00	0.09	
02/07/08	1233.7	312,800	44,600	3.87	312,589	65,000	24.2	111.8	2,400	0.89	4.89	21	0.01	0.09	
02/14/08	1399.6	341,772	28,972	2.87	341,561		15.7	127.5		0.58	5.47		0.01	0.10	2
02/26/08	1427.7	346,091	4,319	0.25	345,880		2.3	129.9		0.09	5.56		0.00	0.10	4
03/04/08	1428.2	346,400	309	0.03	346,189		0.2	130.0		0.01	5.56		0.00	0.10	
03/05/08	1,428.2	346,400	0	0.00	346,189	40,000	0.0	130.0	2,100	0.00	5.56	28	0.00	0.10	
03/13/08	1,617.8	379,835	33,435	2.90	379,624	37,000	10.3	140.4	1,700	0.47	6.04	37	0.01	0.11	
08/01/08	1,617.8	379,835	1,000	0.00	379,624	41,000	0.3	140.7	1,500	0.01	6.05	36	0.00	0.11	5
08/08/08	1,623.1	380,302	467	0.05	380,091	40,000	0.2	140.9	1,900	0.01	6.06	35	0.00	0.11	
08/14/08	1,734.0	393,425	13,123	1.52	393,214		4.4	145.2		0.21	6.27		0.00	0.12	
08/22/08	1,928.0	411,400	17,975	1.56	411,189		6.0	151.2		0.28	6.55		0.01	0.12	
08/26/08	2,052.0	421,400	10,000	1.74	421,189		3.3	154.6		0.16	6.71		0.00	0.12	
08/29/08	2,095.7	425,300	3,900	0.90	425,089		1.3	155.9		0.06	6.77		0.00	0.12	
09/03/08	2,218.9	436,999	11,699	1.62	436,788	31,000	3.0	158.9	970	0.09	6.87	33	0.00	0.13	
09/10/08	2,384.8	453,500	16,501	1.64	453,289		4.3	163.2		0.13	7.00		0.00	0.13	
09/11/08	2,406.8	456,388	2,888	2.01	456,177		0.7	163.9		0.02	7.02		0.00	0.13	
09/17/08	2,555.1	472,712	16,324	1.89	472,501	32,000	4.2	168.1	1,300	0.13	7.15	22	0.00	0.14	
09/22/08	2,674.4	484,718	12,006	1.67	484,507		3.1	171.3		0.10	7.25		0.00	0.14	
09/25/08	2,743.4	491,450	6,732	1.56	491,239		1.7	173.0		0.05	7.31		0.00	0.14	
10/01/08	2,880.0	504,825	13,375	1.55	504,614	26,000	2.9	175.9	980	0.11	7.42	28	0.00	0.15	
10/07/08	3,030.7	504,826	1	0.00	504,615		0.0	175.9		0.00	7.42		0.00	0.15	
10/14/08	3,203.0	521,800	16,974	1.68	521,589		3.7	179.6		0.14	7.55		0.00	0.15	

Table 2: Groundwater Extraction and Treatment System
Operational Data
Former Chevron Station # 9-0260
21995 Foothill Boulevard, Hayward, California

Date (mm/dd/yy)						TPHg			Benzene			MTBE			Notes
	Hour Meter (hours)	Flow Meter Reading (gal)	Period Volume (gal)	Period Operational Flow Rate (gpm)	Cumulative Volume Discharged (gal)	TPHg Concentration (µg/L)	Period Removal ⁵ (pounds)	Cumulative Removal (pounds)	Benzene Concentration (µg/L)	Period Removal ⁵ (pounds)	Cumulative Removal (pounds)	MTBE Concentration (µg/L)	Period Removal ⁵ (pounds)	Cumulative Removal (pounds)	
10/16/08	3,249.5	525,436	3,636	1.26	525,225	27,000	0.8	180.4	1,100	0.03	7.59	34	0.00	0.15	
10/20/08	3,342.5	532,668	7,232	1.26	532,457		1.6	182.0		0.07	7.65		0.00	0.15	
10/30/08	3,587.3	551,119	18,451	1.28	550,908		4.2	186.2		0.17	7.82		0.01	0.16	
11/04/08	3,710.8	566,883	15,764	2.19	566,672	25,000	3.3	189.5	670	0.09	7.91	24.0	0.00	0.16	
11/14/08	3,928.6	591,371	24,488	1.70	591,160		5.1	194.6		0.14	8.05		0.00	0.17	
11/21/08	4,100.2	609,095	17,724	1.76	608,884	87,000	12.9	207.4	2,700	0.40	8.45	30.0	0.00	0.17	
11/26/08	4,215.2	619,510	10,415	1.45	619,299		7.6	215.0		0.23	8.68		0.00	0.17	
12/03/08	4,384.8	634,191	14,681	1.46	633,980	33,000	4.0	219.1	710.0	0.09	8.77	26.0	0.00	0.18	
12/04/08	4,400.2	635,755	1,564	1.09	635,544		0.4	219.5		0.01	8.78		0.00	0.18	
12/10/08	4,540.5	648,910	13,155	1.52	648,699		3.6	223.1		0.08	8.86		0.00	0.18	
12/18/08	4,733.3	666,837	17,927	1.56	666,626	39,000	5.8	228.9	730.0	0.11	8.97	24.0	0.00	0.18	
12/23/08	4,849.8	678,134	11,297	1.57	677,923		3.7	232.6		0.07	9.03		0.00	0.19	
12/30/08	5,019.9	696,221	18,087	1.79	696,010		5.9	238.5		0.11	9.15		0.00	0.19	
01/06/09	5,190.8	713,656	17,435	1.73	713,445	21,000	3.1	241.6	690.0	0.10	9.25	22.0	0.00	0.19	
01/09/09	5,257.3	719,457	5,801	1.34	719,246		1.0	242.6		0.03	9.28		0.00	0.19	
01/10/09	5,285.0	720,715	1,259	0.87	720,504		0.2	242.8		0.01	9.29		0.00	0.19	
01/15/09	5,407.8	730,670	9,955	1.38	730,459		1.7	244.5		0.06	9.34		0.00	0.20	
01/21/09	5,551.8	746,771	16,101	1.86	746,560	17,000	2.3	246.8	640.0	0.09	9.43	25.0	0.00	0.20	
01/29/09	5,714.0	764,570	17,799	1.55	764,359		2.5	249.3		0.10	9.52		0.00	0.20	
02/03/09	5,800.3	778,493	13,923	1.93	778,282	17,000	2.0	251.3	530.0	0.06	9.59	21.0	0.00	0.21	
02/12/09	5,813.7	795,800	17,307	1.34	795,589		2.5	253.8		0.08	9.66		0.00	0.21	
02/18/09	5,854.3	806,200	10,400	1.20	805,989		1.5	255.3		0.05	9.71		0.00	0.21	
02/20/09	5,891.1	814,275	8,075	2.80	814,064	3,500	0.2	255.5	660.0	0.04	9.75	200.0	0.01	0.22	
02/25/09	5,931.4	822,654	8,379	1.16	822,443		0.2	255.7		0.05	9.80		0.01	0.24	
03/03/09	6,062.5	850,576	27,922	3.23	850,365	12,000	2.8	258.5	350.0	0.08	9.88	12.0	0.00	0.24	
03/04/09	6,075.0	853,991	3,415	2.37	853,780		0.3	258.9		0.01	9.89		0.00	0.24	
03/06/09	6,123.4	864,918	10,927	3.79	864,707		1.1	260.0		0.03	9.92		0.00	0.24	
03/09/09	6,169.2	878,100	13,182	3.05	877,889		1.3	261.3		0.04	9.96		0.00	0.24	
03/13/09	6,191.4	883,831	5,731	0.99	883,620		0.6	261.9		0.02	9.98		0.00	0.24	
03/16/09	6,225.9	897,472	13,641	3.16	897,261	27,000	3.1	264.9	630.0	0.07	10.05	26.0	0.00	0.25	
03/25/09	6,231.3	903,200	5,728	0.44	902,989		1.3	266.2		0.03	10.08		0.00	0.25	
05/11/09	6,238.2	906,017	2,817	0.04	905,806		0.6	266.9		0.01	10.09		0.00	0.25	
05/13/09	6,278.0	912,700	6,683	2.32	912,489		1.5	268.4		0.04	10.13		0.00	0.25	
05/14/09	6,291.9	915,463	2,763	1.92	915,252	48,000	1.1	269.5	800.0	0.02	10.15	41.0	0.00	0.25	
05/19/09	6,369.3	932,195	16,732	2.32	931,984		6.7	276.2		0.11	10.26		0.01	0.26	
05/21/09	6,415.5	940,780	8,585	2.98	940,569		3.4	279.6		0.06	10.32		0.00	0.26	
05/27/09	6,562.6	964,884	24,104	2.79	964,673		9.7	289.3		0.16	10.48		0.01	0.27	
05/28/09	6,586.1	969,300	4,416	3.07	969,089		1.8	291.0		0.03	10.51		0.00	0.27	
Total Extracted Volume (gal):					969,089	Pounds Removed:		291.0	Pounds Removed:		10.51	Pounds Removed:		0.27	
Average Operational Flow Rate (gpm):					0.96	Gallons Removed:		47.8	Gallons Removed:		1.43	Gallons Removed:		0.04	

Notes:

- = Hour Meter installed beginning at zero.
- = system shutdown for carbon change out.
- = BISCO unit was reset to zero hours following replacement of PLC
- = system restarted for collecting compliance vapor samples. Upon collection of vapor samples, system was turned off pending carbon changeout.
- = approximately 1,000 gallons of water pumped on 8/1/08 was not discharged to the sewer. Water was hauled offsite by IWM. System
- = System started for full time operation.

Formulas and Assumptions:

- Mass Removed During the Period = Volume of Water Extracted (in gallons) x Concentration (ug/L) x (g/10⁶ug) x (pound/453.6g) x (3.785 L/gal)
When concentration of individual parameters were not detected, the concentration was assumed to half the detection limit for calculation purposes.
- Gallons Removed = Mass (pounds) x (Density)⁻¹ (cc/g) x 453.6 (g/pound) x (L/1000 cc) x (gal/3.785 L)
Density: = 0.73 g/cc
 = 0.88 g/cc
 = 0.74 g/cc
- Average Flow Rate = (Gallons of Extracted Water (gal) / Number of Operational Days) * (60 min/hr) * (24 hours/day)

Abbreviations:

TPHg = total petroleum hydrocarbons quantified as gasoline (by EPA Method 8015B)

BTEX = benzene, toluene, ethylbenzene, and total xylenes (by EPA Method 8020)

MTBE = methyl tert-butyl ether (by EPA Method 8260B)

L = liter

µg/L = micrograms per liter

gal = gallon

gpm = gallon per minute

lbs = pounds

mg = milligrams per liter

g = grams

Blank Cell = indicates not sampled

Table 3: Groundwater Extraction and Treatment System

Effluent Compliance Results
Former Chevron Station # 9-0260
21995 Foothill Boulevard, Hayward, California

Sampling Date (mm/dd/yy)	Concentrations						pH ³	Notes
	TPHg ¹ (µg/L)	Benzene ² (µg/L)	Toluene ² (µg/L)	Ethylbenzene ² (µg/L)	Xylenes ² (µg/L)	MTBE ⁴ (µg/L)		
06/25/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.17	
07/17/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.1	
07/26/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
08/17/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.2	
08/22/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.3	
08/29/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.89	
09/26/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.5	
10/04/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.92	
10/08/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.36	
10/19/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.3	
10/25/07	NS	NS	NS	NS	NS	NS	7.3	
12/05/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
12/06/07	NS	NS	NS	NS	NS	NS	7.5	
12/18/07	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.8	
01/03/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.03	
01/18/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.8	
02/07/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.65	
02/14/08	NS	NS	NS	NS	NS	NS	6.72	
03/05/08	< 50	< 0.5	0.7	< 0.5	< 1.5	< 0.5	8.3	5
03/13/08	120	2.2	17	1.2	23	< 0.5	NA	6
08/01/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.25	7
08/08/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.01	
09/03/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.41	
09/17/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.47	
10/01/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.73	
10/16/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
11/04/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.42	
11/21/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.69	
12/03/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	7.32	
12/18/08	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.70	
01/06/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	8.65	
01/21/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NA	
02/03/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.78	
02/20/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.97	
03/03/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	6.59	
03/16/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NS	
05/11/09	NA	NA	NA	NA	NA	NA	7.43	
05/14/09	< 50	< 0.5	< 0.5	< 0.5	< 1.5	< 0.5	NS	
Regulatory Limits (µg/L)	15,000	ND	ND	ND	ND	No Limit	5.5<L<12.5	

Abbreviations & Notes:

1. = analyzed by EPA Method 8015B

2. = analyzed by EPA Method 8020

3. = pH readings were obtained onsite by utilizing a portable multimeter

4. = analyzed by EPA Method 8260B

5. = Effluent Permit Discharge Limitation of non detect was exceeded. The system was shut down the day the results were obtained (3/13/08), confirmation samples were collected and the OLSD was notified pursuant to the discharge permit. No violation was issued by the OLSD

6. = Confirmation samples results collected prior to system shut down pursuant to results of samples collected on 3/5/08. System was shut down pending results and a carbon change out/installation of additional carbon vessel were arranged in series. The results were forwarded to the OLSD pursuant to permit requirements and no associated fines were assessed due to the analytical results.

7. = Groundwater was pumped into a vacuum truck. No water was discharged to the sewer pending receipt of analytical results.

µg/L = micrograms per liter

NA = not analyzed

ND = non detect

< = not detected at or above laboratory reporting limit indicated

TPHg = total petroleum hydrocarbons quantified as gasoline

BTEX = benzene, toluene, ethylbenzene, and total xylenes

MTBE = methyl tertiary butyl ether

OLSD = Oro Loma Sanitation District

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

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

May 27, 2009

SAMPLE GROUP

The sample group for this submittal is 1144961. Samples arrived at the laboratory on Friday, May 15, 2009. The PO# for this group is 0015040460 and the release number is COSTA.

Client DescriptionINF-W-090514 Grab Water
MID-1-W-090514 Grab Water
MID-2-W-090514 Grab Water
EFF-W-090514 Grab Water**Lancaster Labs Number**5673532
5673533
5673534
5673535**METHODOLOGY**

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Chronicle.

ELECTRONIC CRA
COPY TO
ELECTRONIC Chevron
COPY TO
ELECTRONIC CRA
COPY TO
ELECTRONIC Chevron
COPY TO

Attn: Charlotte Evans

Attn: CRA EDD

Attn: Jeff Schrupp

Attn: C Sanders

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

Respectfully Submitted,



Martha L. Seidel
Senior Chemist



Analysis Report

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Lancaster Laboratories Sample No. WW 5673532

Group No. 1144961
CA

INF-W-090514 Grab Water

Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 INF

Collected: 05/14/2009 08:20 by DG

Account Number: 10880

Submitted: 05/15/2009 09:05

ChevronTexaco

Reported: 05/27/2009 at 11:07

6001 Bollinger Canyon Rd L4310

Discard: 06/27/2009

San Ramon CA 94583

FHINF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
02309	Methyl Tertiary Butyl Ether	1634-04-4	41	5	10
The reporting limits for the GC/MS volatile compounds were raised due to the level of non-target compounds.					
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01729	TPH-GRO N. CA water C6-C12	n.a.	48,000	1,000	20
SW-846 8020A	GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	800	10	20
05879	Ethylbenzene	100-41-4	1,300	10	20
05879	Toluene	108-88-3	6,500	10	20
05879	Total Xylenes	1330-20-7	7,200	30	20

General Sample Comments

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02309	MTBE by GC/MS (water)	SW-846 8260B	1	Z091403AA	05/20/2009 23:38	Michael A Ziegler	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091403AA	05/20/2009 23:38	Michael A Ziegler	10
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09138A54A	05/18/2009 21:01	Tyler O Griffin	20
05879	BTEX	SW-846 8020A	1	09138A54A	05/18/2009 21:01	Tyler O Griffin	20
01146	GC VOA Water Prep	SW-846 5030B	1	09138A54A	05/18/2009 21:01	Tyler O Griffin	20



Analysis Report

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Lancaster Laboratories Sample No. WW 5673533

Group No. 1144961
CA

MID-1-W-090514 Grab Water

Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-1

Collected: 05/14/2009 08:17 by DG

Account Number: 10880

Submitted: 05/15/2009 09:05

Reported: 05/27/2009 at 11:07

Discard: 06/27/2009

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FHMI1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
02309	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01729	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
SW-846 8020A	GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02309	MTBE by GC/MS (water)	SW-846 8260B	1	Z091403AA	05/21/2009 00:03	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091403AA	05/21/2009 00:03	Michael A Ziegler	1
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09138A54A	05/18/2009 21:24	Tyler O Griffin	1
05879	BTEX	SW-846 8020A	1	09138A54A	05/18/2009 21:24	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09138A54A	05/18/2009 21:24	Tyler O Griffin	1

Lancaster Laboratories Sample No. WW 5673534

Group No. 1144961
CA

MID-2-W-090514 Grab Water

Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 MID-2

Collected: 05/14/2009 08:13 by DG

Account Number: 10880

Submitted: 05/15/2009 09:05

ChevronTexaco

Reported: 05/27/2009 at 11:07

6001 Bollinger Canyon Rd L4310

Discard: 06/27/2009

San Ramon CA 94583

FHMI2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
02309	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01729	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
SW-846 8020A	GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02309	MTBE by GC/MS (water)	SW-846 8260B	1	Z091403AA	05/21/2009 00:28	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091403AA	05/21/2009 00:28	Michael A Ziegler	1
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09138A54A	05/18/2009 21:48	Tyler O Griffin	1
05879	BTEX	SW-846 8020A	1	09138A54A	05/18/2009 21:48	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09138A54A	05/18/2009 21:48	Tyler O Griffin	1



Analysis Report

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Lancaster Laboratories Sample No. WW 5673535

Group No. 1144961
CA

EFF-W-090514 Grab Water

Facility# 90260 CRAW

21995 Foothill-Hayward T0600100315 EFF

Collected: 05/14/2009 08:10 by DG

Account Number: 10880

Submitted: 05/15/2009 09:05

Reported: 05/27/2009 at 11:07

Discard: 06/27/2009

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

FHEFF

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	GC/MS Volatiles		ug/l	ug/l	
02309	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
SW-846 8015B	GC Volatiles		ug/l	ug/l	
01729	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
SW-846 8020A	GC Volatiles		ug/l	ug/l	
05879	Benzene	71-43-2	N.D.	0.5	1
05879	Ethylbenzene	100-41-4	N.D.	0.5	1
05879	Toluene	108-88-3	N.D.	0.5	1
05879	Total Xylenes	1330-20-7	N.D.	1.5	1

General Sample Comments

State of California Lab Certification No. 2116

Trip blank vials were not received by the laboratory for this sample group.

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02309	MTBE by GC/MS (water)	SW-846 8260B	1	Z091403AA	05/21/2009 00:54	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091403AA	05/21/2009 00:54	Michael A Ziegler	1
01729	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	09138A54A	05/18/2009 20:14	Tyler O Griffin	1
05879	BTEX	SW-846 8020A	1	09138A54A	05/18/2009 20:14	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	09138A54A	05/18/2009 20:14	Tyler O Griffin	1

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/27/09 at 11:07 AM

Group Number: 1144961

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: Z091403AA	Sample number(s): 5673532-5673535							
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	104		78-117		
Batch number: 09138A54A	Sample number(s): 5673532-5673535							
Benzene	N.D.	0.5	ug/l	115	120	80-120	4	30
Ethylbenzene	N.D.	0.5	ug/l	110	115	80-120	4	30
Toluene	N.D.	0.5	ug/l	115	115	80-120	0	30
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	118	75-135	0	30
Total Xylenes	N.D.	1.5	ug/l	115	115	80-120	0	30

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: Z091403AA	Sample number(s): 5673532-5673535 UNSPK: P674057								
Methyl Tertiary Butyl Ether	106	106	72-126	0	30				
Batch number: 09138A54A	Sample number(s): 5673532-5673535 UNSPK: P675308, P675309								
Benzene	120		70-152						
Ethylbenzene	120		75-133						
Toluene	115		78-129						
TPH-GRO N. CA water C6-C12	127		63-154						
Total Xylenes	120		67-155						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 09138A54A

	Trifluorotoluene-F	Trifluorotoluene-P
5673532	106	119
5673533	106	113
5673534	102	117
5673535	101	118
Blank	100	118

*- Outside of specification

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

Quality Control Summary

Client Name: ChevronTexaco
Reported: 05/27/09 at 11:07 AM

Group Number: 1144961

Surrogate Quality Control

LCS	115	118
LCSD	106	120
MS	103	119

Limits:	63-135	69-129
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Analysis Name: MTBE by GC/MS (water)

Batch number: Z091403AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5673532	89	86	104	97
5673533	95	90	104	93
5673534	93	91	103	92
5673535	94	92	103	93
Blank	94	90	104	94
LCS	92	88	103	102
MS	92	90	104	102
MSD	92	88	103	102
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

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

**Lancaster
Laboratories**

051409-06

For Lancaster Laboratories use only
Acct. #: 10880 Group #: 1144961 Sample #: 5673532-35

Group # 114496

Sample #: 5673532-33

[illegible]

Lancaster Laboratories

Explanation of Symbols and Abbreviations

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

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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