

**RECEIVED**

By Alameda County Environmental Health at 4:14 pm, Oct 29, 2013



3330 Cameron Park Drive, Ste 550  
Cameron Park, California 95682  
(530) 676-6004 ~ Fax: (530) 676-6005  
October 25, 2013

Project No. 2085-4301-01

Mr. Martin Musonge  
San Francisco Bay Region  
Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

Re: **Annual Groundwater Monitoring and Sampling Report – Third Quarter 2013**  
Eagle Gas Station, 4301 San Leandro, Oakland, California  
Global ID No. T0600143649

Dear Mr. Musonge:

Stratus Environmental, Inc. (Stratus) is submitting the attached report, which presents an update of work performed during the fourth quarter 2012 through the third quarter 2013. The work was conducted on behalf of Mr. Muhammad Jamil and Ms. Farah Naz, for the Eagle Gas Station facility located at 4301 San Leandro Street, Oakland, California. Stratus representatives, whose signatures appear below, declare under penalty of perjury, that the information contained in the attached report are true and correct to the best of our knowledge.

If you have any questions regarding this project, please contact Mr. Kasey Jones at (415) 516-0373.

Sincerely,

**STRATUS ENVIRONMENTAL, INC.**

A handwritten signature in black ink, appearing to read "K. Jones".

Kasey L. Jones  
Project Manager

A handwritten signature in black ink, appearing to read "Gowri S. Kowtha".

Gowri S. Kowtha, P.E.  
Principal Engineer



Attachment: Annual Groundwater Monitoring and Sampling Report, Third Quarter 2013

cc: Mr. Muhammad Jamil

**EAGLE GAS STATION  
ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT**

Facility Address: 4301 San Leandro Street, Oakland, California 94601  
Consulting Co. / Contact Person: Stratus Environmental, Inc. / Kasey Jones  
Consultant Project No: 2085-4301-01  
Primary Agency/Regulatory ID No: Mr. Martin Musonge, Regional Water Quality Control Board (RWQCB); Global ID T0600143649

**WORK PERFORMED (Fourth Quarter 2012 through Third Quarter 2013):**

1. On March 25, 2013, the RWQCB approved Stratus' Corrective Action Plan (CAP), dated June 30, 2011. The CAP proposed implementing a continuously operating dual phase extraction (DPE) system at the site to extract soil vapors and groundwater from the subsurface.
2. On July 23, 2013, the City of Oakland, Department of Planning Building and Neighborhood Preservation issued Permit No. P1301682 for temporary gas and electric service to the site.
3. Stratus coordinated and finalized the temporary gas service contract with PG&E on August 8, 2013 for the installation of temporary gas service and meter set.
4. Stratus submitted a completed Sewer Discharge Permit application package to the East Bay Municipal Utility District (EBMUD) on August 14, 2013 for approval to dispose of treated groundwater to the local municipal treatment facility. EBMUD approved the request on August 30, 2013 (Wastewater Discharge Permit No. 32217743).
5. Stratus submitted a completed Sewer Discharge Permit application package to the City of Oakland on September 12, 2013 for approval to transport the treated groundwater through the local underground sewer lines. City of Oakland approved the request on September 25, 2013 in accordance with the terms and conditions described in the EBMUD permit requirements.
6. Stratus coordinated and finalized the temporary electrical service contract with PG&E on September 23, 2013 for temporary electric service and meter set.
7. On September 30, 2013, Stratus submitted an Authority to Construct (ATC) and Permit to Operate (PTO) package to the Bay Area Air Quality Management District (BAAQMD) to operate the proposed DPE system for a 6-month duration.
8. Third quarter 2013 annual monitoring and sampling activities were conducted at the site on July 9 and 10, 2013. During this event upper zone wells MW-1 through MW-8, MW-10, IS-1 through IS-6, EW-1 and EW-2, and deep zone wells MW-1D, MW-4D, MW-5D, MW-7D, MW-9D, MW-10D, and MW-11D were gauged for depth to water, evaluated for the presence of free product, purged, and groundwater samples were collected. Monitoring well MW-9 was inaccessible at the time of the July 2013 monitoring and sampling event. Tabulated historical groundwater elevation data and analytical results are summarized in Table 1.

**WORK PROPOSED (Fourth Quarter 2013 through Third Quarter 2014):**

1. This site is on an annual sampling plan; therefore, no groundwater monitoring or sampling activities are scheduled during the fourth quarter 2013. The next scheduled event will be during the third quarter 2014.

2. During the fourth quarter 2013, Stratus will continue to implement the CAP and install the proposed DPE remediation system at the site. Stratus will aim to complete the install of the proposed gas line, temporary power pole, electric panel, and complete any necessary coordination required to finalize construction with the City of Oakland and PG&E to install the proposed gas and electric meters.

Current Phase of Project:	CAP / REM
Frequency of Groundwater Monitoring and Sampling:	All Wells = Annually (3Q)
Groundwater Sampling Date:	July 9 and 10, 2013
Is Free Product (FP) Present on Site:	None during 3Q13
Approximate Depth to Groundwater (shallow):	8.06 to 12.73 feet below top of well casing
Approximate Depth to Groundwater (deep):	14.06 to 16.86 feet below top of well casing
Groundwater Flow Direction / Gradient (shallow):	Onsite: variable Offsite: south-southwest / 0.01 ft/ft
Groundwater Flow Direction / Gradient (deep):	Radial inward toward MW-1D/ 0.01 to 0.06 ft/ft

## DISCUSSION:

On July 9 and 10, 2013, Stratus conducted the third quarter 2013 annual groundwater monitoring and sampling of 24 of the 25 existing monitoring/remediation wells at the site. MW-9 was inaccessible at the time of gauging and sampling. Groundwater samples were analyzed at a state-certified analytical laboratory for diesel range organics (DRO) by EPA Method SW8015B, gasoline range organics (GRO) by EPA Method SW8015B/SW8260B, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), and tertiary butyl alcohol (TBA) by EPA Method SW8260B. Field data sheets, sampling procedures and laboratory analytical reports are included as Appendices A, B, and C, respectively.

### Shallow Zone

A total of eighteen groundwater monitoring wells (MW-1 through MW-10, IS-1 through IS-6, EW-1, and EW-2) have been screened from 10 to 25 feet below ground surface (bgs) (except MW-9 and MW-10 which are screened 5 to 15 feet bgs) to monitor groundwater occurrence and quality in the first encountered water-bearing zone (known as the 'shallow' or 'A' zone herein). These wells' screens penetrate a soil column of primarily clays, with thin discontinuous meandering horizons of clayey gravels. Historically, groundwater in the shallow monitoring well array has been measured as shallow as approximately 6 feet bgs to as deep as approximately 20 feet bgs, with a historical average of approximately 9.3 feet bgs. The tops of the well screens have been submerged during the majority of the historical monitoring events. Seasonal fluctuations in water table levels on the order of 1 to 2 feet are typical. Historic determinations of the groundwater flow in Zone A indicated an apparent mounding of the groundwater surface on site, with steep gradients to the northwest, southwest, northeast, and southeast. Late 2006 investigations determined that on-site leakage of the domestic water supply and sewer are likely contributing to mounding. Based on geomorphology, surface terrain and nearby sites, overall groundwater flow towards the bay (to the south and southwest) is likely (distribution of offsite groundwater impact also supports an overall southwesterly flow).

At the time of the July 2013 groundwater monitoring event, depth to groundwater was measured between 8.06 to 12.73 feet bgs in all shallow screened monitoring wells, with the exception of MW-9 which was inaccessible at the time of monitoring/sampling. Depth to groundwater data was converted to elevation in feet above mean sea level (MSL) and used to prepare a shallow-zone groundwater elevation contour map

(Figure 2). Groundwater highs during the third quarter 2013 were evident in the northern section of the property (onsite), most notably around the dispenser island. Offsite groundwater flow direction was to the south-southwest. The calculated gradient on July 9, 2013 was 0.01 ft/ft (offsite).

During the third quarter 2013, groundwater samples were collected from 17 of the shallow zone monitoring wells, following a 3-volume purge, with the exception of wells MW-3, IS-5, EW-1 and EW-2 which did not recharge to 80% prior to sampling. Tabulated groundwater analytical data are summarized in Table 1. Chemicals-of-concern (COCs) at the site include GRO, DRO, benzene, MTBE, and TBA.

DRO was reported in sixteen of the seventeen sampled wells during the third quarter 2013, with concentrations ranging between 52 micrograms per liter ( $\mu\text{g/L}$ ) (MW-7) and 6,500  $\mu\text{g/L}$  (IS-4). TBA was also reported in sixteen of the sampled wells with a maximum concentration of 260,000  $\mu\text{g/L}$  reported in onsite well MW-5. GRO was reported only in one well (MW-10 at 9,700  $\mu\text{g/L}$ ); however the laboratory noted that the reporting limits were increased in the remaining wells due to high concentrations of target analytes. Benzene concentrations were reported in five of the sampled wells with a maximum concentration reported in well MW-6 (360  $\mu\text{g/L}$ ), and relatively low levels of DIPE were reported in wells MW-3 (29  $\mu\text{g/L}$ ) and MW-10 (10  $\mu\text{g/L}$ ). MTBE was reported in all wells during the third quarter 2013 sampling event with a maximum concentration of 5,200  $\mu\text{g/L}$  (IS-2). No ETBE or TAME were reported in any of the sampled shallow zone wells during the July 2013 sampling event, however the laboratory noted that reporting limits were increased due to high concentrations of target analytes. GRO, DRO, benzene, MTBE, and TBA concentrations for groundwater samples collected from the shallow zone during the third quarter 2013 are presented in Figure 3.

### **Deep Zone**

A total of seven permanent groundwater monitoring wells (MW-1D, MW-4D, MW-5D, MW-7D, MW-9D, MW-10D, and MW-11D) have been discretely screened (variably) from approximately 35 to 55 bgs to monitor groundwater occurrence and quality in a deeper portion of the saturated zone (known as the 'deep' or 'B' zone herein). The well screens penetrate a soil column of primarily sandy soils (poorly to well-graded sand and silty sand) with thin interbeds of lean clay. Historically, groundwater in the deep monitoring well array has been measured as shallow as 12.7 feet bgs to as deep as 19.2 feet bgs, with a historical average of approximately 15.2 feet bgs. Seasonal fluctuations in water table levels on the order of 1 to 2 feet are typical. Historic determinations of the groundwater flow in Zone B indicate north, east, and southeast and south-southwest flow directions at shallow gradients.

During the July 2013 groundwater monitoring event, depth to groundwater was measured between 14.06 and 16.86 feet bgs in the deep screened monitoring wells. Depth to groundwater data were converted to elevation in feet above mean sea level (MSL) and used to prepare a deep-zone groundwater elevation contour map (Figure 4). Based on data collected during this event, groundwater flow within the B zone was radial inward toward well MW-1D with a gradient range between 0.01 and 0.06 ft/ft.

During the third quarter 2013, groundwater samples were also collected from all deep zone monitoring wells, following a 3-volume purge. Tabulated groundwater analytical data are summarized in Table 1. Current COCs within the deeper zone include only GRO and MTBE. During the third quarter 2013 sampling event, GRO was reported only in wells MW-9D (62  $\mu\text{g/L}$ ) and MW-10D (150  $\mu\text{g/L}$ ), and MTBE was reported in well MW-4D (21  $\mu\text{g/L}$ ). No concentrations of DRO, BTEX compounds, DIPE, ETBE, TAME, or TBA were reported in any of the sampled deep zone wells during the third quarter 2013. GRO, DRO, benzene, MTBE, and TBA concentrations for groundwater samples collected from the deep zone during the third quarter 2013 are presented in Figure 5.

### **Future Work and Remedial Efforts**

Given the current Underground Storage Tank Clean-up Fund (USTCF) budget constraints, construction of the remediation system is being completed in phases. Based on the approved USTCF 2013-2014 budget in the amount of \$70,000, Stratus continued design and coordination for construction, during the third quarter 2013. The scope of work included permit submittals, design and approval from the City of Oakland Building Department for construction, request for service from local utilities (e.g PG&E for electric

and gas service and EBMUD and the City of Oakland for sewer discharge approval) and request from the BAAQMD for operation of the proposed DPE system.

During fourth quarter 2013, Stratus plans to complete construction of the proposed remediation system including all electrical and plumbing work, as necessary, to obtain final approval of the building permit from the City of Oakland Building Department.

**ATTACHMENTS:**

- Table 1 Groundwater Elevation and Analytical Summary
- Figure 1 Site Location Map
- Figure 2 Groundwater Elevation Contour Map , Shallow Screened Wells
- Figure 3 Groundwater Analytical Summary, Shallow Screened Wells
- Figure 4 Groundwater Elevation Contour Map, Deep Screened Wells
- Figure 5 Groundwater Analytical Summary, Deep Screened Wells
- Appendix A Field Data Sheets
- Appendix B Sampling and Analyses Procedures
- Appendix C Laboratory Analytical Reports and Chain-of-Custody Documentation
- Appendix D GeoTracker Electronic Submittal Confirmations

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
<b>UPPER ZONE MONITORING WELLS</b>																			
MW-1	10/03/00	18.37	8.96	9.41	460	93,000	<500	<500	<500	<500	130,000	<10,000	<10,000	<10,000	<2,000	--	--	--	--
	10/27/00	18.37	7.27	11.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/26/01	18.37	7.60	10.77	1,600	51,000	270	<100	<100	<100	77,000	<5,000	<5,000	<5,000	<20,000	--	--	--	--
	05/08/01	18.37	7.50	10.87	470	36,000	<100	<100	<100	<100	15,000	<5,000	<5,000	<5,000	<20,000	--	--	--	--
	08/03/01	18.37	7.09	11.28	2,200	19,000	<50	59	<50	<50	96,000	<5,000	<5,000	<5,000	<20,000	--	--	--	--
	07/01/03	18.37	7.59	10.78	3,000	<25,000	<250	<250	<250	<250	170,000	<250	<250	980	8,700	--	--	--	--
	10/01/03	18.37	8.36	10.01	2,600	<20,000	<200	<200	<200	<200	69,000	<200	<200	270	15,000	--	--	--	--
	02/13/04	18.37	8.80	9.57	1,800	<10,000	<100	<100	<100	<100	85,000	<100	<100	390	79,000	--	--	--	--
	05/17/04	18.37	10.92	7.45	5,400	<15,000	<150	<150	<150	<150	60,000	<150	<150	260	160,000	--	--	--	--
	08/06/04	18.37	7.76	10.61	510	<10,000	<100	<100	<100	<100	26,000	<100	<100	100	250,000	--	--	--	--
	11/12/04	18.37	9.25	9.12	3,500	<5,000	<50	<50	<50	<50	25,000	<50	<50	150	160,000	--	--	--	--
	02/15/05	18.37	10.12	8.25	2,900	<5,000	<50	<50	<50	<50	12,000	<50	<50	70	160,000	--	--	--	--
	05/09/05	18.37	9.58	8.79	1,700	<5,000	<50	<50	<50	<50	11,000	<50	<50	53	200,000	--	--	--	--
	08/08/05	20.08	10.09	9.99	2,000	<5,000	<50	<50	<50	<50	8,500	<50	<50	<50	250,000	--	--	--	--
	11/16/05	20.08	9.81	10.27	3,600	<5,000	<50	<50	<50	<50	3,800	<50	<50	<50	140,000	<5,000	<500	<50	<50
	02/22/06	20.08	9.58	10.50	2,600	<5,000	<50	<50	<50	<50	5,800	<50	<50	<50	120,000	<5,000	<500	<50	<50
	05/16/06	20.08	6.89	13.19	4,700	<5,000	<50	<50	<50	<50	3,700	<50	<50	<50	150,000	<5,000	<500	<50	<50
	08/23/06	20.08	9.21	10.87	2,000	<5,000	<50	<50	<50	<50	3,700	<50	<50	<50	110,000	<5,000	<500	<50	<50
	11/13/06	20.08	8.55	11.53	--	<4,000	<40	<40	<40	<40	2,000	<40	<40	<40	79,000	--	--	--	--
	02/13/07	20.08	7.11	12.97	900	<2,500	<25	<25	<25	<25	3,700	<25	<25	25	63,000	--	--	--	--
	05/15/07	20.08	6.63	13.45	3,000	<2,500	<25	<25	<25	<25	1,100	<25	<25	<25	52,000	--	--	--	--
	08/15/07	20.08	9.61	10.47	1,000	<1,000	<10	<10	<10	<10	230	<10	<10	<10	34,000	--	--	--	--
	11/13/07	20.08	13.63	6.45	170	<150	<1.5	<1.5	<1.5	<1.5	630	<1.5	<1.5	3.1	200	--	--	--	--
	02/19/08	20.08	6.13	13.95	1,800	240	<1.5	<1.5	1.7	1.8	53	<1.5	<1.5	<1.5	2,500	--	--	--	--
	06/25/08	20.08	6.72	13.36	1,300	640	<0.50	<0.50	<0.50	<0.50	77	<0.50	<0.50	0.6	3,800	--	--	--	--
	09/17/08	20.08	8.45	11.63	2,300	430	<1.5	<1.5	<1.5	<1.5	86	<1.5	<1.5	<1.5	4,100	--	--	--	--
	12/08/08	26.64	6.49	20.15	4,600	360	2.4	<1.5	<1.5	<1.5	540	<1.5	<1.5	4.2	15,000	--	--	--	--
	07/01/09	26.64	7.14	19.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	26.64	8.08	18.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	26.64	6.90	19.74	430	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	64	<20[1]	<20[1]	<20[1]	17,000	--	--	--	--
07/14/11	26.64	7.05	19.59	440	670	<2.5[1]	<2.5[1]	<2.5[1]	<2.5[1]	49	<5.0[1]	<5.0[1]	<5.0[1]	7,900	--	--	--	--	
07/25/12	26.64	7.38	19.26	750[2]	930	<2.5[1]	<2.5[1]	<2.5[1]	<2.5[1]	26	<5.0[1]	<5.0[1]	<5.0[1]	5,900	--	--	--	--	
07/09/13	26.64	8.95	17.69	1,100[4]	<1,000[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	21	<10[1]	<10[1]	<10[1]	5,900	--	--	--	--	

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
MW-2	10/03/00	20.28	20.26	0.02	210	250,000	<1,250	<1,250	<1,250	<1,250	400,000	<25,000	<25,000	<25,000	<100,000	--	--	--	--
	10/27/00	20.28	13.88	6.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/26/01	20.28	12.10	8.18	6,000	740,000	3,800	<500	940	1,600	#####	<50,000	<50,000	<50,000	<200,000	--	--	--	--
	05/08/01	20.28	12.05	8.23	2,100	140,000	2,800	<250	780	640	840,000	<50,000	<50,000	<50,000	<200,000	--	--	--	--
	08/03/01	20.28	13.30	6.98	2,600	42,000	1,100	63	230	130	880,000	<25,000	<25,000	<25,000	<100,000	--	--	--	--
	07/01/03	20.28	14.98	5.30	2,200	<200,000	<2,000	<2,000	<2,000	<2,000	790,000	<2,000	<2,000	3,400	<20,000	--	--	--	--
	10/01/03	20.28	15.99	4.29	870	<100,000	<1,000	<1,000	<1,000	<1,000	620,000	<1,000	<1,000	2,700	<20,000	--	--	--	--
	02/13/04	20.28	13.88	6.40	1,200	<20,000	860	<200	260	<200	710,000	<200	<200	2,000	<25,000	--	--	--	--
	05/17/04	20.38	14.68	5.70	2,500	<50,000	860	<500	<500	<500	760,000	<500	<500	2,500	13,000	--	--	--	--
	08/06/04	20.38	15.36	5.02	420	<50,000	590	<500	<500	<500	810,000	<500	<500	3,600	17,000	--	--	--	--
	11/12/04	20.38	15.49	4.89	500	<150,000	<1,500	<1,500	<1,500	<1,500	700,000	<1,500	<1,500	2,800	25,000	--	--	--	--
	02/15/05	20.38	14.16	6.22	990	<150,000	<1,500	<1,500	<1,500	<1,500	630,000	<1,500	<1,500	2,600	32,000	--	--	--	--
	05/09/05	20.38	13.62	6.76	1,100	<150,000	<1,500	<1,500	<1,500	<1,500	570,000	<1,500	<1,500	2,300	32,000	--	--	--	--
	08/08/05	22.05	13.36	8.69	770	<150,000	<1,500	<1,500	<1,500	<1,500	770,000	<1,500	<1,500	2,200	85,000	--	--	--	--
	11/16/05	22.05	14.51	7.54	890	<70,000	<700	<700	<700	<700	430,000	<700	<700	2,100	130,000	<100,000	<7,000	<700	<700
	02/22/06	22.05	12.69	9.36	<1,500	<70,000	800	<700	<700	<700	400,000	<700	<700	1,700	130,000	<70,000	<7,000	<700	<700
	05/16/06	22.05	12.01	10.04	1,100	<70,000	<700	<700	<700	<700	250,000	<700	<700	940	140,000	<70,000	<7,000	<700	<700
	08/23/06	21.98	11.33	10.65	660	<40,000	<400	<400	<400	<400	200,000	<400	<400	830	170,000	<40,000	<4,000	<400	<400
	11/13/06	21.98	13.64	8.34	--	<40,000	<400	<400	<400	<400	140,000	<400	<400	490	170,000	--	--	--	--
	02/13/07	21.98	12.78	9.20	780	<20,000	250	<200	<200	<200	100,000	<200	<200	240	130,000	--	--	--	--
	05/15/07	21.98	13.17	8.81	800	<7,000	150	<70	<70	<70	44,000	<70	<70	120	130,000	--	--	--	--
	08/15/07	21.98	13.48	8.50	610	<5,000	100	<50	<50	<50	21,000	<50	<50	<80	100,000	--	--	--	--
	11/13/07	21.98	14.11	7.87	480	<4,000	140	<40	<40	<40	10,000	<40	<40	<40	100,000	--	--	--	--
	02/19/08	21.98	14.02	7.96	2,600	1,400	88	0.96	4.4	4.4	5,000	<0.50	4.6	14	76,000	--	--	--	--
	06/25/08	21.98	14.63	7.35	340	<4,000	<40	<40	<40	<40	1,300	<40	<40	<40	98,000	--	--	--	--
	09/17/08	21.98	14.76	7.22	370	410	7.5	<0.50	1.8	2.7	1,200	<0.50	4.9	2.3	120,000	--	--	--	--
	12/08/08	28.54	15.90	12.64	<2,000	6,400	940	5.7	390	140	12,000	<0.50	9.7	200	130,000	--	--	--	--
	07/01/09	28.54	14.00	14.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	28.54	10.70	17.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	28.54	9.53	19.01	120	<2,000[1]	22	<10[1]	<10[1]	<10[1]	170	<20[1]	<20[1]	<20[1]	18,000	--	--	--	--
	07/13/11	28.54	8.45	20.09	93	<1,000[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	59	<10[1]	<10[1]	<10[1]	9,900	--	--	--	--
	07/25/12	28.54	9.54	19.00	200[2]	500	<2.5[1]	<2.5[1]	<2.5[1]	<2.5[1]	39	<5.0[1]	<5.0[1]	<5.0[1]	5,300	--	--	--	--
	07/09/13	28.54	10.32	18.22	120[4]	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	39	<20[1]	<20[1]	<20[1]	7,400	--	--	--	--

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
MW-3	10/03/00	18.98	--	--	120	83,000	<500	<500	<500	<500	33,000	<2,500	<2,500	<2,500	<10,000	--	--	--	--
	10/27/00	18.98	18.75	0.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/26/01	18.98	13.38	5.60	900	230,000	930	<500	<500	<500	330,000	<25,000	<25,000	<25,000	<100,000	--	--	--	--
	05/08/01	18.98	11.82	7.16	1,100	95,000	840	<250	<250	<250	390,000	<12,500	<12,500	<12,500	<50,000	--	--	--	--
	08/03/01	18.98	13.44	5.54	290	30,000	<50	51	<50	<50	270,000	<12,500	<12,500	<12,500	<50,000	--	--	--	--
	07/01/03	18.98	12.67	6.31	620	<50,000	<500	<500	<500	<500	230,000	<500	<500	1,800	<5,000	--	--	--	--
	10/01/03	18.98	14.04	4.94	370	<20,000	<200	<200	<200	<200	120,000	<200	<200	1,200	<5,000	--	--	--	--
	02/13/04	18.98	12.20	6.78	430	<20,000	280	<200	<200	<200	210,000	<200	<200	1,200	<5,000	--	--	--	--
	05/17/04	18.98	11.87	7.11	920	<25,000	<250	<250	<250	<250	150,000	<250	<250	1,100	5,600	--	--	--	--
	08/06/04	18.98	13.07	5.91	78	<20,000	<200	<200	<200	<200	110,000	<200	<200	760	<2,500	--	--	--	--
	11/12/04	18.98	12.83	6.15	120	<20,000	<200	<200	<200	<200	100,000	<200	<200	660	6,000	--	--	--	--
	02/15/05	18.98	11.95	7.03	130	<25,000	<250	<250	<250	<250	110,000	<250	<250	760	12,000	--	--	--	--
	05/09/05	18.98	10.51	8.47	320	<15,000	<150	<150	<150	<150	97,000	<150	<150	780	30,000	--	--	--	--
	08/08/05	20.73	10.98	9.75	180	<15,000	<150	<150	<150	<150	75,000	<150	<150	500	44,000	--	--	--	--
	11/16/05	20.73	12.89	7.84	<200	<5,000	<50	<50	<50	<50	37,000	<50	<50	190	38,000	<5,000	<500	<50	<50
	02/22/06	20.73	10.31	10.42	<600	<5,000	88	<50	<50	<50	57,000	<50	<50	420	65,000	<9,000	<500	<50	<50
	05/16/06	20.73	9.03	11.70	<600	<9,000	110	<90	<90	<90	42,000	<90	<90	340	68,000	<9,000	<900	<90	<90
	08/23/06	20.68	10.81	9.87	<200	<4,000	<40	<40	<40	<40	18,000	<40	<40	120	60,000	<4,000	<400	<40	<40
	11/13/06	20.68	12.29	8.39	--	<2,000	<20	<20	<20	<20	6,100	<20	<20	30	54,000	--	--	--	--
	02/13/07	20.68	11.23	9.45	<200	<4,000	52	<40	<40	<40	13,000	<40	<40	82	65,000	--	--	--	--
	05/15/07	20.68	10.39	10.29	<300	<4,000	67	<40	<40	<40	12,000	<40	<40	77	71,000	--	--	--	--
	08/15/07	20.68	11.81	8.87	<200	<4,000	42	<40	<40	<40	4,500	<40	<40	<40	64,000	--	--	--	--
	11/13/07	20.68	12.26	8.42	<100	<2,000	27	<20	<20	<20	3,300	25	<20	<20	49,000	--	--	--	--
	02/19/08	20.68	10.72	9.96	<300	<2,000	64	<20	<20	<20	3,500	<20	<20	31	52,000	--	--	--	--
	06/25/08	20.68	11.30	9.38	140	<2,000	<20	<20	<20	<20	1,100	<20	<20	<20	54,000	--	--	--	--
	09/17/08	20.68	12.82	7.86	110	<900	<9.0	<9.0	<9.0	<9.0	1,000	19	<9.0	<9.0	29,000	--	--	--	--
	12/08/08	27.24	12.91	14.33	94	<900	<9.0	<9.0	<9.0	<9.0	640	16	<9.0	<9.0	24,000	--	--	--	--
	07/01/09	27.24	11.71	15.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.24	12.80	14.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.24	11.28	15.96	52	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	700	22	<20[1]	<20[1]	22,000	--	--	--	--
	07/14/11	27.24	10.77	16.47	260[5,2]	<1,000[1]	<5.0[1]	<5.0[1]	<5.0[1]	<5.0[1]	690	14	<10[1]	<10[1]	16,000	--	--	--	--
	07/25/12	27.24	11.86	15.38	330[2]	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	640	20	<20[1]	<20[1]	20,000	--	--	--	--
	07/09/13	27.24	12.73	14.51	<50	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	520	29	<20[1]	<20[1]	11,000	--	--	--	--



**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
MW-4	02/22/06	21.63	7.87	13.76	<8,000	<150,000	3,200	2,000	1,600	3,800	770,000	<1,500	<1,500	3,300	59,000	<150,000	<15,000	<1,500	<1,500
	05/16/06	21.63	8.04	13.59	3,800	<70,000	2,100	<700	930	1,500	410,000	<700	<700	2,500	110,000	<70,000	<7,000	<700	<700
	08/23/06	21.53	9.77	11.76	8,400	89,000	4,500	<700	2,100	2,800	870,000	<700	<700	4,000	89,000	<70,000	<7,000	<700	<700
	11/13/06	21.53	8.78	12.75	--	<150,000	3,700	<1,500	<1,500	2,400	950,000	<1,500	<1,500	4,000	110,000	--	--	--	--
	02/13/07	21.53	7.56	13.97	2,000	<150,000	2,000	<1,500	<1,500	<1,500	640,000	<1,500	<1,500	2,900	130,000	--	--	--	--
	05/15/07	21.53	7.97	13.56	1,900	<70,000	3,200	<700	1,000	940	430,000	<700	<700	2,300	160,000	--	--	--	--
	08/15/07	21.53	9.03	12.50	4,400	<150,000	2,400	<1,500	<1,500	<1,500	630,000	<1,500	<1,500	4,300	130,000	--	--	--	--
	11/13/07	21.53	8.52	13.01	2,200	<70,000	4,900	<700	1,000	<700	620,000	<700	<700	3,600	150,000	--	--	--	--
	02/19/08	21.53	7.51	14.02	3,200	<70,000	3,900	<700	1,400	<1,500	350,000	<700	<700	2,100	130,000	<70,000	<7,000	--	--
	06/25/08	21.53	8.10	13.43	13,000	<70,000	4,000	<700	<700	<700	360,000	<700	<700	2,300	330,000	--	--	--	--
	09/17/08	21.53	9.66	11.87	7,600	<40,000	3,500	<400	<400	<400	220,000	<400	<400	1,400	490,000	--	--	--	--
	12/08/08	28.09	8.90	19.19	14,000	69,000	3,600	1,400	2,400	10,000	360,000	<150	<150	2,000	660,000	--	--	--	--
	07/01/09	28.09	8.64	19.45	4,600	<50,000	5,000	<500	2,200	6,600	400,000	<500	<500	3,400	240,000	--	--	--	--
	01/07/10	28.09	10.07	18.02	3,200	<9,000	510	<90	330	1,100	34,000	<90	<90	180	290,000	--	--	--	--
	07/21/10	28.09	8.54	19.55	19,000[4]	100,000	980	<100[1]	1,800	5,510	13,000	<200[1]	<200[1]	<200[1]	280,000	--	--	--	--
	07/13/11	28.09	7.98	20.11	1,700	<20,000[1]	190	<100[1]	370	1,200[1]	1,700	<200[1]	<200[1]	<200[1]	160,000	--	--	--	--
07/25/12	28.09	8.76	19.33	1,700[4]	<20,000[1]	110	<100[1]	500	1,700	1,200	<200[1]	<200[1]	<200[1]	210,000	--	--	--	--	
07/09/13	28.09	9.30	18.79	970[4]	<20,000[1]	<100[1]	<100[1]	560	1,500	230	<200[1]	<200[1]	<200[1]	120,000	--	--	--	--	
MW-5	02/22/06	20.48	6.63	13.85	<3,000	<10,000	460	<100	170	<100	480,000	<100	<100	3,000	95,000	<90,000	<1,000	<100	<100
	05/16/06	20.48	6.62	13.86	1,600	<90,000	<900	<900	<900	<900	480,000	<900	<900	2,300	130,000	<90,000	<9,000	<900	<900
	08/23/06	20.41	7.62	12.79	1,400	<90,000	<900	<900	<900	<900	510,000	<900	<900	2,400	270,000	<90,000	<9,000	<900	<900
	11/13/06	20.41	7.31	13.10	--	<90,000	<900	<900	<900	<900	430,000	<900	<900	2,200	350,000	--	--	--	--
	02/13/07	20.41	6.54	13.87	1,000	<50,000	<500	<500	<500	<500	260,000	<500	<500	740	350,000	--	--	--	--
	05/15/07	20.41	6.79	13.62	2,200	<15,000	650	<150	<150	<150	73,000	<150	<150	610	240,000	--	--	--	--
	08/15/07	20.41	7.99	12.42	950	<25,000	<250	<250	<250	<250	130,000	<250	<250	550	620,000	--	--	--	--
	11/13/07	20.41	7.51	12.90	800	<15,000	<150	<150	<150	<150	92,000	<150	<150	250	300,000	--	--	--	--
	02/19/08	20.41	8.41	12.00	3,400	<15,000	160	<150	<150	<150	38,000	<150	<150	<150	480,000	--	--	--	--
	06/25/08	20.41	9.00	11.41	850	<15,000	<150	<150	<150	<150	33,000	<150	<150	<150	520,000	--	--	--	--
	09/17/08	20.41	8.35	12.06	900	<15,000	<150	<150	<150	<150	22,000	<150	<150	<150	520,000	--	--	--	--
	12/08/08	26.97	7.41	19.56	1,600	<9,000	<90	<90	<90	<90	23,000	<90	<90	<90	500,000	--	--	--	--
	07/01/09	26.97	7.14	19.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	26.97	9.13	17.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	26.97	7.46	19.51	140	<50,000[1]	<250[1]	<250[1]	<250[1]	<250[1]	2,000	<500[1]	<500[1]	<500[1]	440,000	--	--	--	--
	07/14/11	26.97	6.87	20.10	190	<20,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	350	<200[1]	<200[1]	<200[1]	330,000	--	--	--	--
07/25/12	26.97	7.70	19.27	190[2]	<50,000[1]	<250[1]	<250[1]	<250[1]	<250[1]	900	<500[1]	<500[1]	<500[1]	520,000	--	--	--	--	
07/09/13	26.97	8.06	18.91	290	<50,000[1]	<250[1]	<250[1]	<250[1]	<250[1]	250	<500[1]	<500[1]	<500[1]	260,000	--	--	--	--	

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	
MW-6	02/22/06	20.45	9.88	10.57	2,900	<10,000	620	<100	<100	<100	50,000	<100	<100	210	24,000	<10,000	<1,000	<100	<100	
	05/16/06	20.45	9.35	11.10	3,200	<9,000	1,500	<90	<90	<90	50,000	<90	<90	280	27,000	<10,000	<900	<90	<90	
	08/23/06	20.47	10.48	9.99	3,400	<9,000	1,600	<90	<90	<90	39,000	<90	<90	190	55,000	<9,000	<900	<90	<90	
	11/13/06	20.47	10.86	9.61	--	<5,000	1,200	<50	<50	<50	17,000	<50	<50	66	71,000	--	--	--	--	
	02/13/07	20.47	10.31	10.16	2,400	4,900	1,800	<25	<25	<25	14,000	<25	<25	65	55,000	--	--	--	--	
	05/15/07	20.47	10.35	10.12	2,600	4,900	1,900	21	<20	<20	12,000	<20	<20	55	60,000	--	--	--	--	
	08/15/07	20.47	10.74	9.73	2,900	4,000	1,300	<20	<20	<20	7,000	<20	<20	32	69,000	--	--	--	--	
	11/13/07	20.47	10.91	9.56	2,400	5,400	2,000	<20	<20	<20	3,300	<20	<20	<20	63,000	--	--	--	--	
	02/19/08	20.47	9.82	10.65	2,300	2,000	660	6.7	<1.5	4.6	280	<1.5	<1.5	2	4,500	--	--	--	--	
	06/25/08	20.47	10.43	10.04	2,500	2,700	880	<20	<20	<20	1,400	<20	<20	<20	74,000	--	--	--	--	
	09/17/08	20.47	11.76	8.71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	27.03	11.08	15.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/09	27.03	10.85	16.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.03	12.48	14.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.03	11.41	15.62	650[4]	4,700	1,400	<20[1]	<20[1]	<20[1]	500	<40[1]	<40[1]	<40[1]	50,000	--	--	--	--	--
	07/14/11	27.03	10.98	16.05	770	2,300	930	11	<10[1]	<10[1]	270	<20[1]	<20[1]	<20[1]	29,000	--	--	--	--	--
07/25/12	27.03	11.78	15.25	1,300[2]	<4,000[1]	1,000	<20[1]	<20[1]	<20[1]	220	<40[1]	<40[1]	<40[1]	33,000	--	--	--	--	--	
07/09/13	27.03	12.49	14.54	460	<4,000[1]	360	<20[1]	<20[1]	<20[1]	330	<40[1]	<40[1]	<40[1]	23,000	--	--	--	--	--	
MW-7	02/22/06	21.13	11.72	9.41	400	<10,000	<100	<100	<100	<100	88,000	<100	<100	430	90,000	<10,000	<1,000	<100	<100	
	05/16/06	21.13	8.72	12.41	340	<5,000	<50	<50	<50	<50	28,000	<50	<50	120	47,000	<5,000	<500	<50	<50	
	08/23/06	21.14	11.34	9.80	280	<9,000	<90	<90	<90	<90	62,000	<90	<90	280	160,000	<18,000	<900	<90	<90	
	11/13/06	21.14	12.53	8.61	--	<9,000	<90	<90	<90	<90	49,000	<90	<90	280	130,000	--	--	--	--	
	02/13/07	21.14	11.83	9.31	210	<7,000	<70	<70	<70	<70	33,000	<70	<70	170	130,000	--	--	--	--	
	05/15/07	21.14	10.99	10.15	250	<5,000	<50	<50	<50	<50	36,000	<50	<50	190	140,000	--	--	--	--	
	08/15/07	21.14	12.41	8.73	390	<9,000	<90	<90	<90	<90	37,000	<90	<90	170	160,000	--	--	--	--	
	11/13/07	21.14	13.41	7.73	310	<9,000	<90	<90	<90	<90	45,000	<90	<90	220	150,000	--	--	--	--	
	02/19/08	21.14	9.51	11.63	190	<500	<5	<5	<5	<5	3,000	<5	<5	15	13,000	--	--	--	--	
	06/25/08	21.14	10.03	11.11	240	<4,000	<40	<40	<40	<40	21,000	<40	<40	99	100,000	--	--	--	--	
	09/17/08	21.14	13.68	7.46	230	<9,000	<90	<90	<90	<90	34,000	<90	<90	180	70,000	--	--	--	--	
	12/08/08	27.70	14.13	13.57	180	<15,000	<150	<150	<150	<150	98,000	<150	<150	740	100,000	--	--	--	--	
	07/01/09	27.70	12.00	15.70	350	<4,000	<40	<40	<40	<40	19,000	<40	<40	100	70,000	--	--	--	--	
	01/07/10	27.70	16.15	11.55	230	<400	<4.0	<4.0	<4.0	<4.0	3,600	<4.0	<4.0	7.8	9,000	--	--	--	--	
	07/21/10	27.70	10.75	16.95	92	9,300	<20[1]	<20[1]	<20[1]	<20[1]	11,000	<40[1]	<40[1]	<40[1]	35,000	--	--	--	--	
	07/13/11	27.70	9.62	18.08	52	2,400	<10[1]	<10[1]	<10[1]	<10[1]	5,400	<20[1]	<20[1]	<20[1]	33,000	--	--	--	--	
07/25/12	27.70	10.49	17.21	<100[6]	<5,000[1]	<25[1]	<25[1]	<25[1]	<25[1]	3,600	<50[1]	<50[1]	<50[1]	53,000	--	--	--	--		
07/09/13	27.70	11.93	15.77	52	<5,000[1]	<25[1]	<25[1]	<25[1]	<25[1]	40	<50[1]	<50[1]	<50[1]	32,000	--	--	--	--		

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
IS-1	02/22/06	20.57	6.91	13.66	4,400	<5,000	160	<50	<50	<50	21,000	<50	<50	64	130,000	<5,000	<500	<50	<50
	05/16/06	20.57	7.01	13.56	3,800	<5,000	150	<50	<50	<50	24,000	<50	<50	58	130,000	<5,000	<500	<50	<50
	08/23/06	20.58	7.82	12.76	3,800	<5,000	65	<50	<50	<50	5,800	<50	<50	<50	110,000	<5,000	<500	<50	<50
	11/13/06	20.58	8.21	12.37	--	<5,000	<50	<50	<50	<50	1,000	<50	<50	<50	100,000	--	--	--	--
	02/13/07	20.58	6.14	14.44	1,800	<4,000	<40	<40	<40	<40	3,600	<40	<40	<40	110,000	--	--	--	--
	05/15/07	20.58	7.04	13.54	2,000	<4,000	49	<40	<40	<40	2,800	<40	<40	<40	98,000	--	--	--	--
	08/15/07	20.58	8.06	12.52	2,700	<4,000	<40	<40	<40	<40	4,200	<40	<40	<40	90,000	--	--	--	--
	11/13/07	20.58	7.61	12.97	1,400	<700	<7.0	<7.0	<7.0	<7.0	470	<7.0	<7.0	<7.0	25,000	--	--	--	--
	02/19/08	20.58	6.42	14.16	1,800	410	2	<0.50	<0.50	<0.50	1,000	<0.50	1.8	2.7	80,000	--	--	--	--
	06/25/08	20.58	7.04	13.54	2,500	<4,000	<40	<40	<40	<40	3,300	<40	<40	<40	94,000	--	--	--	--
	09/17/08	20.58	8.85	11.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	27.14	7.81	19.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/09	27.14	7.62	19.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.14	8.84	18.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.14	7.55	19.59	570[2]	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	120	<20[1]	<20[1]	<20[1]	22,000	--	--	--	--
	07/14/11	27.14	7.05	20.09	600	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	63	<20[1]	<20[1]	<20[1]	19,000	--	--	--	--
07/25/12	27.14	7.74	19.40	480[2]	<2,000[1]	<10[1]	<10[1]	<10[1]	<10[1]	28	<20[1]	<20[1]	<20[1]	15,000	--	--	--	--	
07/09/13	27.14	8.14	19.00	360	<400[1]	<2.0[1]	<2.0[1]	<2.0[1]	<2.0[1]	6.1	<4.0[1]	<4.0[1]	<4.0[1]	3,400	--	--	--	--	
IS-2	02/22/06	20.87	6.92	13.95	<4,000	8,600	1,200	<9.0	240	17	190,000	<9.0	9	1,700	29,000	<150,000	<90	<9.0	<9.0
	05/16/06	20.87	6.99	13.88	<3,000	<15,000	500	<150	<150	<150	130,000	<150	<150	880	24,000	<15,000	<1,500	<150	<150
	08/23/06	20.78	7.91	12.87	2,700	<40,000	490	<400	<400	<400	150,000	<400	<400	1,200	39,000	<40,000	<4,000	<400	<400
	11/13/06	20.78	8.23	12.55	--	<40,000	<400	<400	<400	<400	160,000	<400	<400	990	120,000	--	--	--	--
	02/13/07	20.78	6.76	14.02	<1,500	<5,000	230	<50	<50	<50	28,000	<50	<50	250	72,000	--	--	--	--
	05/15/07	20.78	6.87	13.91	<3,000	<7,000	690	<70	120	<70	35,000	<70	<70	370	32,000	--	--	--	--
	08/15/07	20.78	8.08	12.70	<3,000	<7,000	500	<70	<70	<70	20,000	<70	<70	160	160,000	--	--	--	--
	11/13/07	20.78	7.69	13.09	<4,000	15,000	1,100	<70	240	<70	29,000	<70	<70	380	25,000	--	--	--	--
	02/19/08	20.78	6.63	14.15	<3,000	5,300	550	5	32	7.6	7,400	<0.50	3.2	94	65,000	--	--	--	--
	06/25/08	20.78	7.21	13.57	4,300	5,500	440	<40	<40	<40	3,100	<40	<40	<40	110,000	--	--	--	--
	09/17/08	20.78	8.67	12.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	27.34	8.02	19.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/09	27.34	7.85	19.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.34	8.76	18.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.34	7.85	19.49	1,100	<5,000[1]	<25[1]	<25[1]	<25[1]	<25[1]	120	<50[1]	<50[1]	<50[1]	79,000	--	--	--	--
	07/14/11	27.34	7.46	19.88	440	3,700	180	<15[1]	<15[1]	<15[1]	210	<30[1]	<30[1]	<30[1]	38,000	--	--	--	--
07/25/12	27.34	8.19	19.15	210[4]	<20,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	240	<200[1]	<200[1]	<200[1]	92,000	--	--	--	--	
07/09/13	27.34	8.63	18.71	840	<10,000[1]	<50[1]	<50[1]	<50[1]	<50[1]	5,200	<100[1]	<100[1]	<100[1]	68,000	--	--	--	--	

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
MW-8	02/22/06	21.03	7.28	13.75	6,800	<10,000	1,200	<100	270	220	400,000	<100	<100	2,100	63,000	<300,000	<1,000	<100	<100
	05/16/06	21.03	7.48	13.55	3,800	<90,000	1,600	<900	<900	<900	620,000	<900	<900	3,000	46,000	<90,000	<9,000	<900	<900
	08/23/06	20.95	8.19	12.76	17,000	<90,000	940	<900	<900	<900	340,000	<900	<900	1,200	74,000	<90,000	<9,000	<900	<900
	11/13/06	20.95	8.15	12.80	--	<25,000	490	<250	<250	<250	120,000	<250	<250	360	130,000	--	--	--	--
	02/13/07	20.95	6.58	14.37	4,100	<90,000	1,700	<900	<900	<900	410,000	<900	<900	1,700	160,000	--	--	--	--
	05/15/07	20.95	7.24	13.71	3,300	<50,000	650	<500	<500	<500	190,000	<500	<500	750	170,000	--	--	--	--
	08/15/07	20.95	8.61	12.34	4,400	<25,000	420	<250	<250	<250	150,000	<250	<250	460	210,000	--	--	--	--
	11/13/07	20.95	8.21	12.74	89,000	<25,000	<250	<250	<250	<250	120,000	<250	<250	<250	250,000	--	--	--	--
	02/19/08	20.95	7.01	13.94	120,000	<10,000	650	<100	<100	160	56,000	<100	<100	210	260,000	--	--	--	--
	06/25/08	20.95	7.59	13.36	3,200	<15,000	210	<150	<150	<150	70,000	<150	<150	190	320,000	--	--	--	--
	09/17/08	20.95	9.24	11.71	8,300	<25,000	<250	<250	37,000	<250	100,000	<250	<250	<250	450,000	--	--	--	--
	12/08/08	27.51	8.62	18.89	<2,000,000	1,700,000	2,300	<250	<250	67,000	91,000	<250	<250	1,500	410,000	--	--	--	--
	07/01/09	27.51	8.42	19.09	4,100	<25,000	600	<250	<250	<250	220,000	<250	<250	610	350,000	--	--	--	--
	01/07/10	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.51	8.52	18.99	2,200[2]	12,000	230	<50[1]	<50[1]	<50[1]	10,000	<100[1]	<100[1]	<100[1]	170,000	--	--	--	--
	07/14/11	27.51	7.75	19.76	1,900[2]	<10,000[1]	120	<50[1]	<50[1]	<50[1]	2,900	<100[1]	<100[1]	<100[1]	110,000	--	--	--	--
	07/25/12	27.51	8.72	18.79	2,300[2]	<20,000[1]	100	<100[1]	<100[1]	<100[1]	430	<200[1]	<200[1]	<200[1]	140,000	--	--	--	--
07/09/13	27.51	9.27	18.24	1,700[2]	<20,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	240	<200[1]	<200[1]	<200[1]	92,000	--	--	--	--	
MW-9	12/08/08	25.35	6.96	18.39	<800	1,200	4.2	<2.5	13	9.4	1,300	<2.5	<2.5	10	240	<300	<25	<2.5	<2.5
	07/01/09	25.35	7.40	17.95	360	1,400	7.9	1.4	0.86	5.1	400	<0.50	<0.50	3.6	24	--	--	--	--
	01/07/10	25.35	6.81	18.54	<50	120	0.52	<0.50	<0.50	<0.50	53	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	07/21/10	25.35	7.28	18.07	68[3]	4,500	20	4.8	16	8.1[1]	890	<3.0[1]	<3.0[1]	6.6	120	--	--	--	--
	07/13/11																		
	07/25/12																		
	07/09/13																		
MW-10	12/08/08	25.23	8.20	17.03	<2,000	8,000	560	41	35	150	500	5.1	<1.0	<1.0	13	<200	<10	78	<1.0
	07/01/09	25.23	8.20	17.03	920	7,200	370	41	150	200	410	3.1	<0.90	<0.90	8.4	--	--	--	--
	01/07/10	25.23	7.36	17.87	<500	5,400	270	21	94	110	440	3.0	<0.90	<0.90	10	--	--	--	--
	07/21/10	25.23	8.47	16.76	190[3]	12,000	380	29	390	193	500	<10[1]	<10[1]	<10[1]	<100[1]	--	--	--	--
	07/13/11	25.23	7.75	17.48	210[3]	11,000	390	28	430	168	950	<10[1]	<10[1]	<10[1]	2,700	--	--	--	--
	07/25/12	25.23	8.54	16.69	130[3]	11,000	400	16	150	47	590	<5.0[1]	<5.0[1]	<5.0[1]	<50[1]	--	--	--	--
	07/09/13	25.25	8.86	16.39	110[3]	9,700	340	19	380	90	470	10	<10[1]	<10[1]	<100[1]	--	--	--	--

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-	
																		DCA µg/L	EDB µg/L
IS-3	02/22/06	20.99	7.32	13.67	<4,000	29,000	2,700	820	1,100	2,900	750,000	<100	<100	3,400	40,000	<80,000	<1,000	<100	<100
	05/16/06	20.99	7.86	13.13	8,000	<20,000	1,110	<200	450	<200	300,000	<200	<200	1,600	65,000	<20,000	<2,000	<200	<200
	08/23/06	20.87	8.19	12.68	4,800	<50,000	2,900	<500	1,100	660	970,000	<500	<500	3,900	54,000	<50,000	<5,000	<500	<500
	11/13/06	20.87	8.03	12.84	--	<200,000	2,800	<2,000	<2,000	<2,000	#####	<2,000	<2,000	4,500	65,000	--	--	--	--
	02/13/07	20.87	7.03	13.84	<3,000	<150,000	3,200	<1,500	<1,500	<1,500	600,000	<1,500	<1,500	3,300	49,000	--	--	--	--
	05/15/07	20.87	7.17	13.70	<4,000	<150,000	2,900	<1,500	<1,500	<1,500	630,000	<1,500	<1,500	3,400	88,000	--	--	--	--
	08/15/07	20.87	8.43	12.44	<3,000	<150,000	2,800	<1,500	<1,500	<1,500	960,000	<1,500	<1,500	4,300	98,000	--	--	--	--
	11/13/07	20.87	7.93	12.94	1,900	<150,000	2,600	<1,500	<1,500	<1,500	880,000	2,000	<1,500	3,600	130,000	--	--	--	--
	02/19/08	20.87	6.01	14.86	1,200	2,700	660	4.8	160	<150	32,000	0.63	1.8	200	3,600	--	--	--	--
	06/25/08	20.87	6.59	14.28	3,500	<150,000	3,600	<1,500	<1,500	<1,500	840,000	<1,500	<1,500	4,000	200,000	--	--	--	--
	09/17/08	20.87	9.12	11.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	27.43	8.64	18.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/09	27.43	8.43	19.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.43	8.77	18.66	1,100[3]	69,000	620	<100[1]	510	650[1]	74,000	<200[1]	<200[1]	240	240,000	--	--	--	--
	07/14/11	27.43	7.85	19.58	1,300	<20,000[1]	570	<100[1]	170	390	6,000	<200[1]	<200[1]	<200[1]	160,000	--	--	--	--
	07/25/12	27.43	8.74	18.69	1,300[4]	<50,000[1]	430	<250[1]	<250[1]	<250[1]	4,100	<500[1]	<500[1]	<500[1]	400,000	--	--	--	--
	07/09/13	27.43	9.30	18.13	1,800[4]	<40,000[1]	340	<200[1]	<200[1]	<200[1]	2,200	<400[1]	<400[1]	<400[1]	210,000	--	--	--	--
IS-4	02/22/06	20.79	6.95	13.84	3,100	11,000	790	<100	120	<100	280,000	<100	<100	2,400	51,000	<10,000	<1,000	<100	<100
	05/16/06	20.79	7.17	13.62	5,600	<15,000	610	<150	<150	<150	220,000	<150	<150	1,700	53,000	<15,000	<1,500	<150	<150
	08/23/06	20.68	7.83	12.85	4,300	6,100	280	<40	<40	<40	270,000	<40	<40	1,600	100,000	<80,000	<400	<40	<40
	11/13/06	20.68	8.46	12.22	--	<50,000	<500	<500	<500	<500	230,000	<500	<500	1,100	220,000	--	--	--	--
	02/13/07	20.68	9.02	11.66	1,500	<25,000	380	<250	<250	<250	160,000	<250	<250	570	250,000	--	--	--	--
	05/15/07	20.68	6.99	13.69	1,700	<25,000	<250	<250	<250	<250	150,000	<250	<250	820	260,000	--	--	--	--
	08/15/07	20.68	8.05	12.63	1,000	<15,000	<150	<150	<150	<150	85,000	<150	<150	360	280,000	--	--	--	--
	11/13/07	20.68	6.38	14.30	760	<9,000	<90	<90	<90	<90	45,000	<90	<90	220	110,000	--	--	--	--
	02/19/08	20.68	6.11	14.57	1,100	980	39	0.94	3.1	1.2	870	<0.50	3.4	7.6	42,000	--	--	--	--
	06/25/08	20.68	6.70	13.98	4,000	<9,000	<90	<90	<90	<90	6,300	<90	<90	<90	300,000	--	--	--	--
	09/17/08	20.68	8.59	12.09	<1,500	2,600	14	0.96	2.6	1.9	3,100	<1.0	9.1	8.4	280,000	--	--	--	--
	12/08/08	27.24	7.94	19.30	4,000	20,000	1,100	360	710	3,000	110,000	1.1	20	630	540,000	--	--	--	--
	07/01/09	27.24	7.79	19.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.24	9.00	18.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.24	7.74	19.50	340[3]	<10,000[1]	<50[1]	<50[1]	<50[1]	<50[1]	850	<100[1]	<100[1]	<100[1]	140,000	--	--	--	--
	07/14/11	27.24	7.56	19.68	510	4,500	81	<10[1]	<10[1]	<10[1]	60	<20[1]	<20[1]	<20[1]	39,000	--	--	--	--
	07/25/12	27.24	8.11	19.13	440[4]	<20,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	220	<200[1]	<200[1]	<200[1]	130,000	--	--	--	--
	07/09/13	27.24	9.00	18.24	6,500[4]	<20,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	160	<200[1]	<200[1]	<200[1]	88,000	--	--	--	--

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
IS-5	02/22/06	21.02	7.17	13.85	35,000	66,000	4,100	<250	3,100	7,700	420,000	<250	<250	4,600	40,000	<25,000	<2,500	<250	<250
	05/16/06	21.02	6.81	14.21	11,000	33,000	2,800	<200	1,700	1,900	350,000	<200	<200	3,400	29,000	<20,000	<2,000	<200	<200
	08/23/06	20.91	8.12	12.79	11,000	71,000	5,200	<500	6,200	4,500	350,000	<500	<500	3,900	32,000	<50,000	<5,000	<500	<500
	11/13/06	20.91	8.41	12.50	--	<50,000	930	<500	<500	<500	440,000	<500	<500	2,800	89,000	--	--	--	--
	02/13/07	20.91	6.78	14.13	<5,000	<50,000	3,600	<500	2,200	3,800	240,000	<500	<500	3,600	28,000	--	--	--	--
	05/15/07	20.91	7.15	13.76	<5,000	<50,000	4,500	<500	<500	<500	200,000	<500	<500	2,700	24,000	--	--	--	--
	08/15/07	20.91	8.32	12.59	<10,000	<50,000	4,300	<500	2,100	990	310,000	<500	<500	3,400	48,000	--	--	--	--
	11/13/07	20.91	7.71	13.20	<5,000	<50,000	2,100	<500	1,900	3,600	260,000	<500	<500	2,600	5,500	--	--	--	--
	02/19/08	20.91	7.35	13.56	<18,000	73,000	5,200	67	2,800	5,300	110,000	1.9	8.3	2,500	250,000	--	--	--	--
	06/25/08	20.91	7.93	12.98	27,000	<50,000	3,400	<500	740	1,300	180,000	<500	<500	2,600	94,000	--	--	--	--
	09/17/08	20.91	8.96	11.95	10,000,000	680,000	2,400	50	18,000	27,000	190,000	<10	13	2,200	240,000	--	--	--	--
	12/08/08	27.47	8.38	19.09	140,000	47,000	2,900	44	4,000	7,100	89,000	1.3	14	1,600	230,000	--	--	--	--
	07/01/09	27.47	8.05	19.42	7,200	50,000	4,400	<250	2,800	3,200	150,000	<250	<250	2,600	150,000	--	--	--	--
	01/07/10	27.47	9.95	17.52	<4,000	29,000	2,200	<70	3,200	3,100	8,000	<70	<70	210	140,000	--	--	--	--
	07/21/10	27.47	8.04	19.43	51,000	390,000	1,500	<100[1]	14,000	13,000[1]	12,000	<200[1]	<200[1]	220	160,000	--	--	--	--
	07/14/11	27.47	7.39	20.08	4,400	24,000	650	<50[1]	1,300	1,800	840	<100[1]	<100[1]	<100[1]	110,000	--	--	--	--
	07/25/12	27.47	8.58	18.89	830[4]	<30,000[1]	530	<150[1]	520	490	840	<300[1]	<300[1]	<300[1]	180,000	--	--	--	--
07/09/13	27.47	9.18	18.29	910[4]	<20,000[1]	200	<100[1]	210	<100[1]	160	<200[1]	<200[1]	<200[1]	120,000	--	--	--	--	
IS-6	02/22/06	20.56	6.89	13.67	3,000	11,000	1,000	<100	560	180	130,000	<100	<100	1,400	210,000	<15,000	<1,000	<100	<100
	05/16/06	20.56	6.44	14.12	3,300	<20,000	1,300	<200	730	<200	96,000	<200	<200	1,300	260,000	<25,000	<2,500	<200	<200
	08/23/06	20.47	7.69	12.78	2,900	<20,000	580	<200	<200	<200	54,000	<200	<200	500	370,000	<20,000	<2,000	<200	<200
	11/13/06	20.47	7.72	12.75	--	<9,000	220	<90	<90	<90	20,000	<90	<90	170	260,000	--	--	--	--
	02/13/07	20.47	6.12	14.35	1,600	<9,000	360	<90	<90	<90	28,000	<90	<90	210	310,000	--	--	--	--
	05/15/07	20.47	6.67	13.80	1,700	9,100	1,400	<70	300	<70	21,000	<70	<70	240	240,000	--	--	--	--
	08/15/07	20.47	7.91	12.56	1,700	<9,000	560	<90	<90	<90	8,000	<90	<90	100	220,000	--	--	--	--
	11/13/07	20.47	7.22	13.25	880	<5,000	200	<50	<50	<50	3,700	<50	<50	220	190,000	--	--	--	--
	02/19/08	20.47	6.49	13.98	1,200	3,500	360	2.3	41	1.6	6,100	0.66	8.6	55	220,000	--	--	--	--
	06/25/08	20.47	7.07	13.40	1,900	<7,000	200	<70	<70	<70	1,600	<70	<70	<90	250,000	--	--	--	--
	09/17/08	20.47	8.37	12.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	27.03	7.75	19.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/09	27.03	7.55	19.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.03	8.91	18.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	27.03	7.55	19.48	730	<10,000[1]	<50[1]	<50[1]	<50[1]	<50[1]	440	<100[1]	<100[1]	<100[1]	83,000	--	--	--	--
	07/14/11	27.03	6.95	20.08	260	<2,000[1]	100	<10[1]	<10[1]	<10[1]	240	<20[1]	<20[1]	<20[1]	40,000	--	--	--	--
	07/25/12	27.03	7.88	19.15	480[4]	<10,000[1]	<50[1]	<50[1]	<50[1]	<50[1]	98	<100[1]	<100[1]	<100[1]	78,000	--	--	--	--
07/09/13	27.03	8.47	18.56	1,100[4]	<5,000[1]	<25[1]	<25[1]	<25[1]	<25[1]	31	<50[1]	<50[1]	<50[1]	30,000	--	--	--	--	

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
EW-1	02/22/06	21.74	8.06	13.68	3,200	<150,000	3,100	<1,500	<1,500	<1,500	700,000	<1,500	<1,500	5,100	59,000	<150,000	<15,000	<1,500	<1,500
	05/16/06	21.74	7.97	13.77	1,600	<100,000	2,000	<1,000	<1,000	<1,000	630,000	<1,000	<1,000	4,700	57,000	<100,000	<10,000	<1,000	<1,000
	08/23/06	21.65	9.61	12.04	2,600	<150,000	2,200	<1,500	<1,500	<1,500	#####	<1,500	<1,500	5,200	79,000	<150,000	<15,000	<1,500	<1,500
	11/13/06	21.65	8.78	12.87	--	<100,000	<1,000	<1,000	<1,000	<1,000	610,000	<1,000	<1,000	4,000	110,000	--	--	--	--
	02/13/07	21.65	6.31	15.34	840	<70,000	1,200	<700	<700	<700	530,000	<700	<700	2,500	100,000	--	--	--	--
	05/15/07	21.65	8.13	13.52	1,500	<70,000	1,700	<700	<700	<700	990,000	<700	<700	3,900	150,000	--	--	--	--
	08/15/07	21.65	8.71	12.94	1,400	<80,000	1,900	<800	<800	<800	680,000	<800	<800	3,400	210,000	--	--	--	--
	11/13/07	21.65	8.70	12.95	860	<70,000	<700	<700	<700	<700	440,000	<700	<700	1,700	280,000	--	--	--	--
	02/19/08	21.65	7.71	13.94	800	<25,000	340	1.5	<250	<250	300,000	<5.0	26	1,200	340,000	--	--	--	--
	06/25/08	21.65	8.30	13.35	1,200	<40,000	580	<400	<400	<400	260,000	<400	<400	1,100	450,000	--	--	--	--
	09/17/08	21.65	9.82	11.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	28.21	9.09	19.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/01/09	28.21	8.84	19.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	28.21	10.02	18.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	28.21	9.41	18.80	7,000[4]	<20,000[1]	<100[1]	<100[1]	<100[1]	<100[1]	1,500	<200[1]	<200[1]	<200[1]	130,000	--	--	--	--
	07/13/11	28.21	8.10	20.11	2,300[4]	<5,000[1]	110	<25[1]	35	<25[1]	460	<50[1]	<50[1]	<50[1]	88,000	--	--	--	--
07/25/12	28.21	8.74	19.47	17,000[4]	<5,000[1]	<25[1]	<25[1]	<25[1]	<25[1]	170	<50[1]	<50[1]	<50[1]	42,000	--	--	--	--	
07/09/13	28.21	9.38	18.83	380[3]	<2,000[1]	11	<10[1]	<10[1]	<10[1]	64	<20[1]	<20[1]	<20[1]	13,000	--	--	--	--	
EW-2	02/22/06	20.46	7.31	13.15	<3,000	10,000	1,800	<100	700	670	120,000	<100	<100	1,200	36,000	<80,000	<1,000	<100	<100
	05/16/06	20.46	7.25	13.21	<3,000	<25,000	2,400	<250	1,110	880	180,000	<250	<250	1,400	45,000	<25,000	<2,500	<250	<250
	08/23/06	20.37	8.31	12.06	<2,000	<25,000	1,600	<250	520	<250	120,000	<250	<250	930	35,000	<25,000	<2,500	<250	<250
	11/13/06	20.37	8.18	12.19	--	<10,000	610	<100	170	<100	60,000	<100	<100	380	25,000	--	--	--	--
	02/13/07	20.37	7.15	13.22	<2,000	<15,000	1,100	<150	230	<150	81,000	<150	<150	700	49,000	--	--	--	--
	05/15/07	20.37	7.74	12.63	<3,000	9,900	1,700	<50	460	170	96,000	<50	<50	870	65,000	--	--	--	--
	08/15/07	20.37	9.45	10.92	<2,000	<15,000	1,300	<150	250	<150	100,000	<150	<150	700	75,000	--	--	--	--
	11/13/07	20.37	9.64	10.73	<1,500	8,100	820	5.5	190	91	30,000	<0.50	4.6	230	47,000	--	--	--	--
	02/19/08	20.37	7.91	12.46	<2,000	11,000	1,500	<50	610	300	78,000	<50	<50	590	130,000	--	--	--	--
	06/25/08	20.37	8.50	11.87	1,600	<5,000	730	<50	<50	<50	11,000	<50	<50	120	130,000	--	--	--	--
	09/17/08	20.37	10.24	10.13	1,300	<5,000	310	<50	<50	<50	3,500	<50	<50	<50	160,000	--	--	--	--
	12/08/08	26.93	9.15	17.78	<1,500	<5,000	650	<50	210	68	9,600	<50	<50	150	140,000	--	--	--	--
	07/01/09	26.93	9.10	17.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	26.93	9.58	17.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	26.93	7.90	19.03	460[3]	<20,000[1]	140	<100[1]	<100[1]	<100[1]	1,000	<200[1]	<200[1]	<200[1]	110,000	--	--	--	--
	07/13/11	26.93	7.45	19.48	350[3]	<5,000[1]	41	<25[1]	<25[1]	<25[1]	270	<50[1]	<50[1]	<50[1]	78,000	--	--	--	--
07/25/12	26.93	8.35	18.58	280[3]	<10,000[1]	<50[1]	<50[1]	<50[1]	<50[1]	120	<100[1]	<100[1]	<100[1]	78,000	--	--	--	--	
07/09/13	26.93	9.13	17.80	210[3]	<5,000[1]	<25[1]	<25[1]	<25[1]	<25[1]	71	<50[1]	<50[1]	<50[1]	36,000	--	--	--	--	

**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	
<b>DEEP ZONE MONITORING WELLS</b>																				
<b>MW-1D</b>	11/13/07	19.98	15.61	4.37	140	71	<0.50	<0.50	<0.50	<0.50	600	<0.50	<0.50	3.4	550	<50	<5.0	<0.50	<0.50	
	11/27/07	19.98	15.52	4.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/19/08	19.98	13.81	6.17	180	<50	<0.50	<0.50	<0.50	<0.50	1.5	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	06/25/08	19.98	14.43	5.55	<50	<50	<0.50	<0.50	<0.50	<0.50	2.8	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	09/17/08	19.98	15.77	4.21	<50	<50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	09/22/08	19.98	15.68	4.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	26.54	15.93	10.61	<50	<50	<0.50	<0.50	<0.50	<0.50	0.91	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	07/01/09	26.54	14.65	11.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/17/09	26.54	14.93	11.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	26.54	15.04	11.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	26.54	13.97	12.57	<50	<50	<0.50	<0.50	<0.50	<0.50	0.91	<1.0	<1.0	<1.0	<10	--	--	--	--	
	07/14/11	26.54	13.76	12.78	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
	07/25/12	25.54	15.53	10.01	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
	07/09/13	25.54	15.20	10.34	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
<b>MW-4D</b>	02/22/06	21.54	15.58	5.96	<50	<90	<0.90	<0.90	<0.90	<0.90	440	<0.90	<0.90	1.8	<5.0	<90	<9.0	<0.90	<0.90	
	05/16/06	21.54	13.23	8.31	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	
	08/23/06	21.44	15.33	6.11	<50	<50	<0.50	<0.50	<0.50	<0.50	1	<0.50	<0.50	<0.50	<5.0	93	8	<0.50	<0.50	
	11/13/06	21.44	16.23	5.21	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	02/13/07	21.44	15.73	5.71	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	05/15/07	21.44	15.38	6.06	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	08/15/07	21.44	16.42	5.02	130	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	11/13/07	21.44	17.21	4.23	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	11/27/07	21.44	15.85	5.59	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	21.44	15.41	6.03	170	<50	<0.50	<0.50	<0.50	<1.0	0.64	<0.50	<0.50	<0.50	<5.0	<50	<5.0	--	--	
	06/25/08	21.44	16.01	5.43	<50	<50	<0.50	<0.50	<0.50	<0.50	7.9	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	09/17/08	21.44	17.36	4.08	72	<50	<0.50	<0.50	<0.50	<0.50	5.7	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	09/22/08	21.44	17.23	4.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/08/08	28.00	17.56	10.44	<50	<50	<0.50	<0.50	<0.50	<0.50	150	<0.50	<0.50	0.98	74	--	--	--	--	
	07/01/09	28.00	16.26	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/17/09	28.00	16.53	11.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	28.00	16.68	11.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/21/10	28.00	15.55	12.45	<50	<300[1]	<1.5[1]	<1.5[1]	<1.5[1]	<1.5[1]	140	<3.0[1]	<3.0[1]	<3.0[1]	1,700	--	--	--	--	
07/13/11	28.00	15.35	12.65	<50	<50	<0.50	<0.50	<0.50	<0.50	30	<1.0	<1.0	<1.0	16	--	--	--	--		
07/25/12	28.00	16.12	11.88	<50	<50	<0.50	<0.50	<0.50	<0.50	37	<1.0	<1.0	<1.0	35	--	--	--	--		
07/09/13	28.00	16.86	11.14	<50	<50	<0.50	<0.50	<0.50	<0.50	21	<1.0	<1.0	<1.0	<10	--	--	--	--		



**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L	
MW-5D	02/22/06	20.32	13.68	6.64	<50	<50	<0.50	<0.50	<0.50	<0.50	8.1	<0.50	<0.50	<0.50	5.5	<50	<5.0	<0.50	<0.50	
	05/16/06	20.32	12.72	7.60	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	
	08/23/06	20.22	14.48	5.74	<50	<50	<0.50	<0.50	<0.50	<0.50	56	<0.50	<0.50	<0.50	<5.0	120	6	<0.50	<0.50	
	11/13/06	20.22	14.98	5.24	--	<50	<0.50	<0.50	<0.50	<0.50	81	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	02/13/07	20.22	14.48	5.74	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	05/15/07	20.22	14.13	6.09	<50	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	08/15/07	20.22	15.21	5.01	330	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	11/13/07	20.22	15.94	4.28	3,700	51	<0.50	<0.50	<0.50	<0.50	3.1	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	11/27/07	20.22	15.85	4.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/19/08	20.22	14.17	6.05	12,000	<50	<0.50	<0.50	<0.50	<0.50	190	<0.50	<0.50	0.83	36	--	--	--	--	
	06/25/08	20.22	14.77	5.45	74	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	09/17/08	20.22	6.11	14.11	65	<50	<0.50	<0.50	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	09/22/08	20.22	16.00	4.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/08/08	26.78	16.33	10.45	<50	<50	<0.50	<0.50	<0.50	<0.50	1.4	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	07/01/09	26.78	15.02	11.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	07/17/09	26.78	15.27	11.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/07/10	26.78	15.40	11.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/21/10	26.78	14.32	12.46	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--		
07/13/11	26.78	14.11	12.67	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--		
07/25/12	26.78	14.90	11.88	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--		
07/09/13	26.78	15.61	11.17	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--		
MW-7D	11/13/07	21.36	19.21	2.15	760	<150	<1.5	<1.5	<1.5	<1.5	760	<1.5	<1.5	5.3	<5.0	<150	31	<1.5	<1.5	
	11/27/07	21.36	17.02	4.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	02/19/08	21.36	15.78	5.58	280	<150	<1.5	<1.5	<1.5	2.4	1,000	<1.5	<1.5	7.5	17	--	--	--	--	
	06/25/08	21.36	16.36	5.00	92	<100	<1.0	<1.0	<1.0	<1.0	690	<1.0	<1.0	5.9	63	--	--	--	--	
	09/17/08	21.36	17.24	4.12	52	<300	<3.0	<3.0	<3.0	<3.0	1,300	<3.0	<3.0	10	24	--	--	--	--	
	09/22/08	21.36	17.39	3.97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/08/08	27.92	17.41	10.51	<50	<50	<0.50	<0.50	<0.50	<0.50	320	<0.50	<0.50	3.2	<5.0	--	--	--	--	
	07/01/09	27.92	16.75	11.17	<50	<50	<0.50	<0.50	<0.50	<0.50	24	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	07/17/09	27.92	16.43	11.49	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/07/10	27.92	12.52	15.40	<1,500	4,900	350	10	62	420	61,000	0.71	9.2	360	200,000	--	--	--	--	
	07/21/10	27.92	15.49	12.43	<50	<50	<0.50	<0.50	<0.50	<0.50	32	<1.0	<1.0	<1.0	<10	--	--	--	--	
	07/13/11	27.92	15.24	12.68	<50	<50	<0.50	<0.50	<0.50	<0.50	8.1	<1.0	<1.0	<1.0	<10	--	--	--	--	
	07/25/12	27.92	16.02	11.90	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
07/09/13	27.92	16.75	11.17	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--		
MW-9D	12/08/08	25.49	14.98	10.51	150	420	0.6	<0.50	1.7	3.4	1.7	<0.50	<0.50	<0.50	<5.0	<50	<5.0	0.54	<0.50	
	07/01/09	25.49	13.71	11.78	<50	440	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--	
	01/07/10	25.49	14.11	11.38	<50	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--		
	07/21/10	25.49	13.11	12.38	<50	320	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	
	07/13/11	25.49	12.82	12.67	<50	230	<0.50	<0.50	<0.50	<0.50	2.2	<1.0	<1.0	<1.0	<10	--	--	--	--	
	07/25/12						Well not Sampled - Inaccessible													
	07/09/13	25.49	14.25	11.24	<50	62	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--	

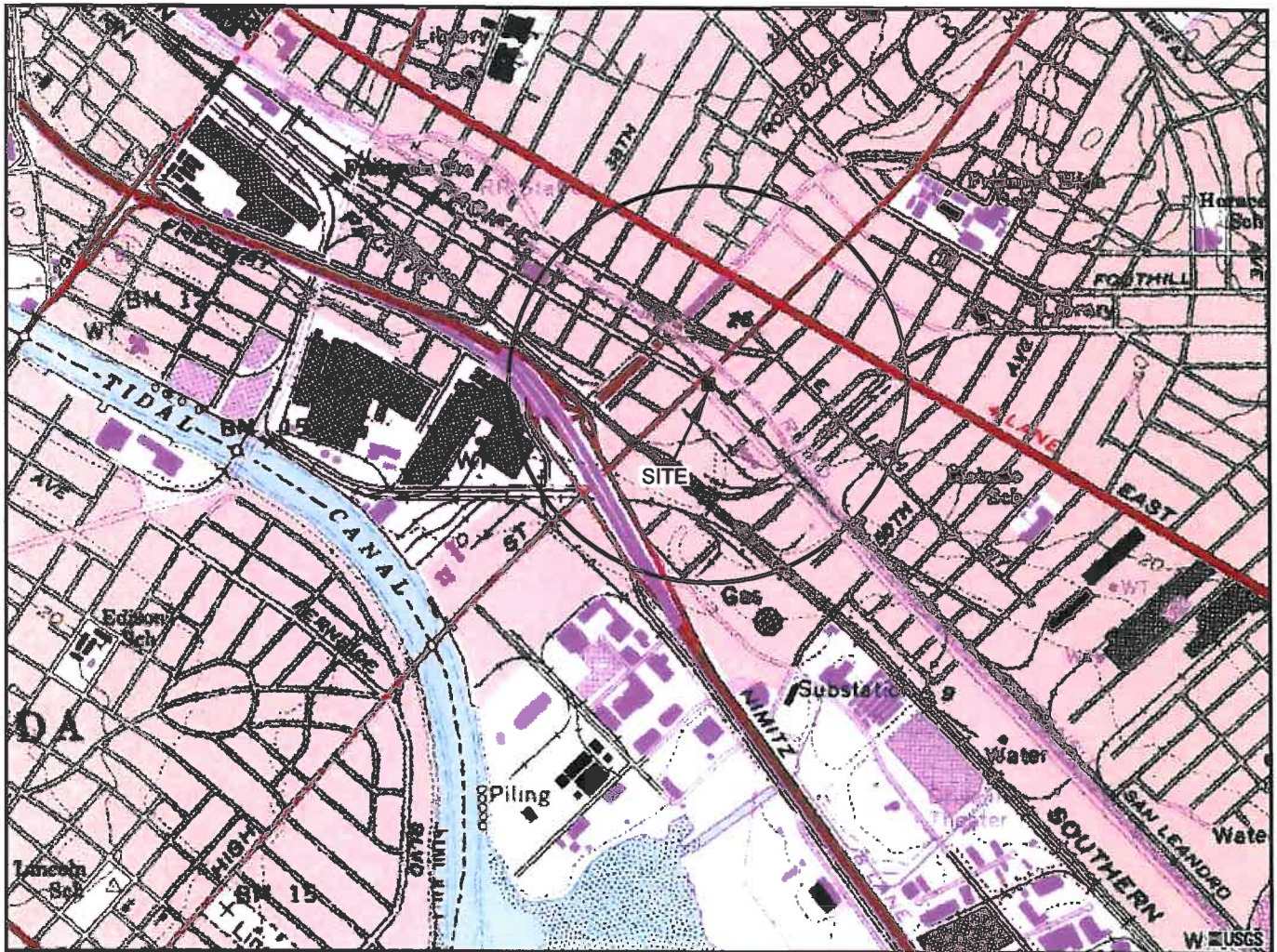
**TABLE 1**  
**GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY**  
 Eagle Gas Station  
 4301 San Leandro Street, Oakland, California

Well Number	Date	Well Casing Elevation (ft MSL)	Depth to Water (ft)	Groundwater Elevation (ft MSL)	DRO µg/L	GRO µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total Xylenes µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	TBA µg/L	Methanol µg/L	Ethanol µg/L	1,2-DCA µg/L	EDB µg/L
MW-10D	12/08/08	25.29	14.81	10.48	120	120	0.64	<0.50	0.63	1.3	1.5	<0.50	<0.50	<0.50	<5.0	<50	<5.0	0.51	<0.50
	07/01/09	25.29	13.38	11.91	<50	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	01/07/10	25.29	13.90	11.39	<50	180	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	07/21/10	25.29	12.90	12.39	<50	100	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--
	07/13/11	25.29	12.67	12.62	<50	59	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--
	07/25/12	25.29	13.42	11.87	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--
	07/09/13	25.29	14.06	11.23	<50	150	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--
MW-11D	12/08/08	27.23	16.75	10.48	<50	<50	<0.50	<0.50	<0.50	<0.50	3.0	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50
	07/01/09	27.23	15.45	11.78	<50	<50	<0.50	<0.50	<0.50	<0.50	2.0	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	07/17/09	27.23	15.72	11.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/07/10	27.23	15.82	11.41	120	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	--
	07/21/10	27.23	14.76	12.47	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--
	07/14/11	27.23	14.53	12.70	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--
	07/25/12	27.23	15.33	11.90	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--
	07/09/13	27.33	16.02	11.31	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<10	--	--	--	--

**Notes:**  
 ft MSL = feet above Mean Sea Level  
 -- = Not measured/not analyzed  
 µg/L = micrograms per liter  
 [1] = Reporting limits were increased due to high concentrations of target analytes.  
 [2] = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.  
 [3] = DRO concentration may include contributions from lighter-end hydrocarbons that elute in the DRO range.  
 [4] = DRO concentration may include contributions from lighter-end and heavier-end hydrocarbons that elute in the DRO range.  
 [5] = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.  
 [6] = Reporting limits were increased due to sample matrix interference.

**Analysis:**  
 GRO by EPA Method 8015B/8260B and DRO analyzed by EPA Method 8015B.  
 BTEX, MTBE, DIPE, ETBE, TAME, TBA, Methanol, Ethanol, 1,2-DCA, and EDB analyzed by EPA Method 8260B.

DRO = Diesel Range Organics C13-C22  
 GRO = Gasoline Range Organics C4-C13  
 MTBE = Methyl tertiary butyl ether  
 DIPE = Di-isopropyl ether  
 ETBE = Ethyl tertiary butyl ether  
 TAME = Tert-amyl methyl ether  
 TBA = Tert-Butanol  
 1,2-DCA = 1,2-Dichloroethane  
 EDB = 1,2-Dibromoethane



GENERAL NOTES:  
 BASE MAP FROM U.S.G.S.  
 OAKLAND, CA.  
 7.5 MINUTE TOPOGRAPHIC  
 PHOTOREVISED 1978



QUADRANGLE LOCATION



APPROXIMATE SCALE

*STRATUS*  
 ENVIRONMENTAL, INC.

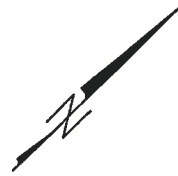
EAGLE GAS STATION  
 4301 SAN LEANDRO STREET  
 OAKLAND, CALIFORNIA

FIGURE

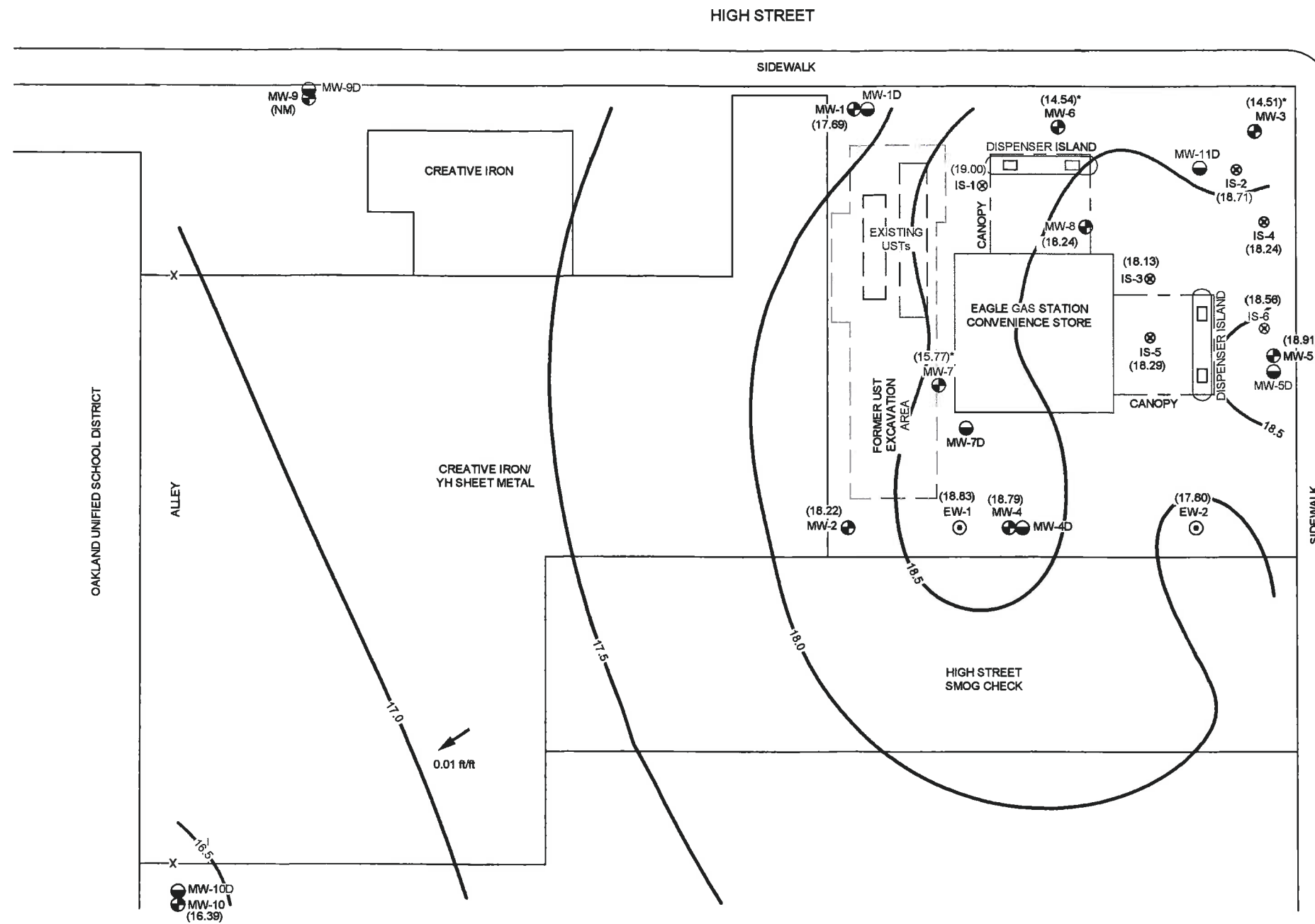
1

PROJECT NO.  
 2085-4301-01

SITE LOCATION MAP



- LEGEND**
- MW-1 SHALLOW MONITORING WELL LOCATION
  - MW-1D DEEP MONITORING WELL LOCATION
  - ⊙ EW-1 EXTRACTION WELL LOCATION
  - ⊗ IS-1 INJECTION WELL LOCATION
  - (17.69) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
  - 18.0— WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
  - ➔ INFERRED DIRECTION OF GROUND WATER FLOW
- WELLS MEASURED: 7/09/13  
(NM) = NOT MEASURED  
\* NOT USED FOR CONTOURING



Eagle Gas/Oakland/Quantity - JUMP REV August 12, 2013

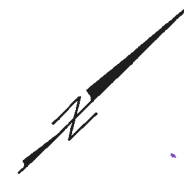
**STRATUS**  
ENVIRONMENTAL, INC.



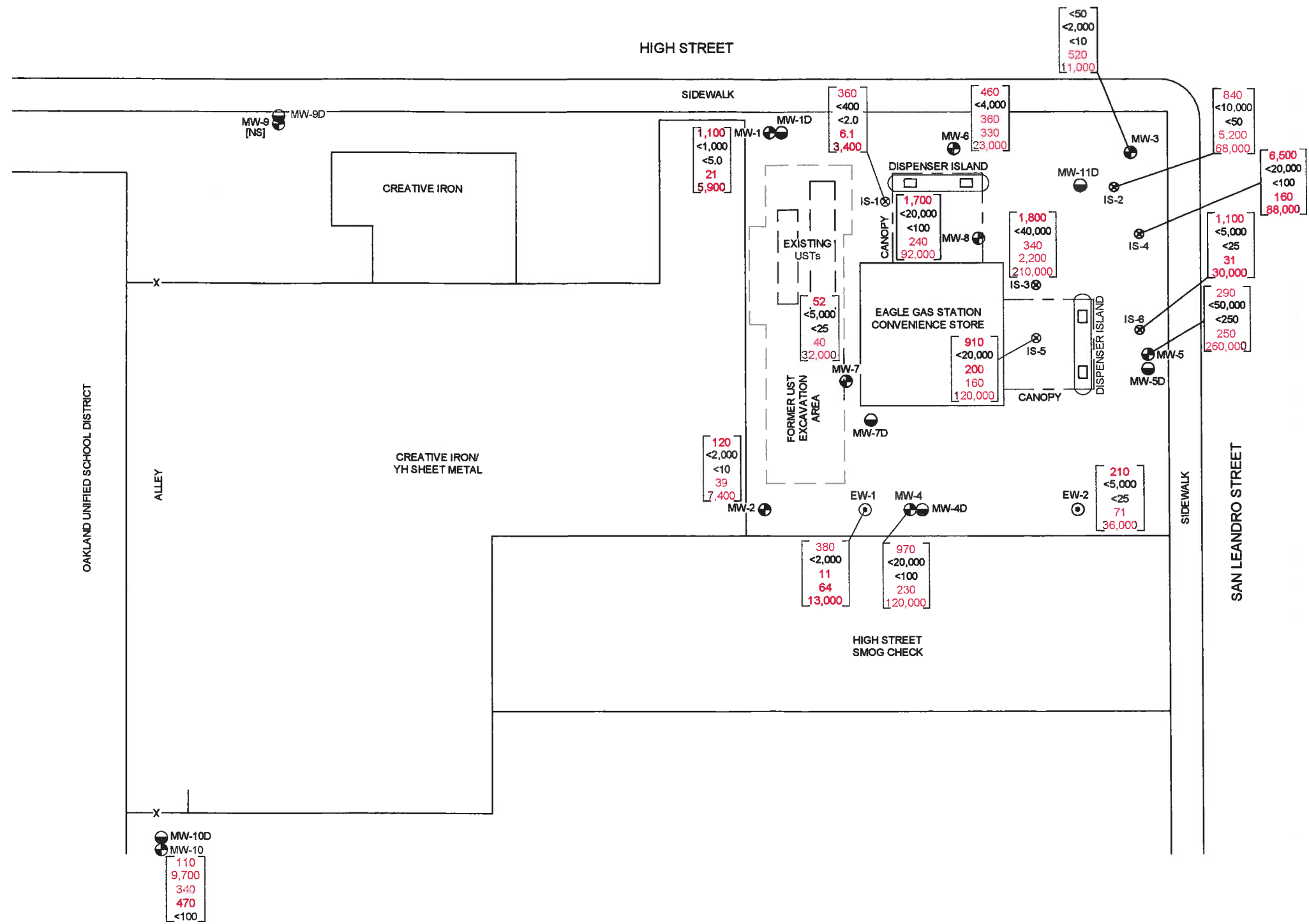
EAGLE GAS STATION  
4301 SAN LEANDRO STREET  
OAKLAND, CALIFORNIA  
GROUNDWATER ELEVATION CONTOUR MAP  
SHALLOW SCREENED WELLS  
3rd QUARTER 2013

FIGURE  
**2**  
PROJECT NO.  
2038-4301-01



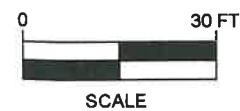


- LEGEND**
- MW-1 SHALLOW MONITORING WELL LOCATION
  - MW-1D DEEP MONITORING WELL LOCATION
  - ⊙ EW-1 EXTRACTION WELL LOCATION
  - ⊗ IS-1 INJECTION WELL LOCATION
- |        |  |
|--------|--|
| 102    | DIESEL RANGE ORGANICS (DRO) IN µg/L        |
| <2,000 | GASOLINE RANGE ORGANICS (GRO) IN µg/L      |
| <10    | BENZENE CONCENTRATION IN µg/L              |
| 39     | METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L |
| 7,400  | TERTIARY BUTYL ALCOHOL (TBA) IN µg/L       |
- SAMPLES COLLECTED ON 7/09/13 & 7/10/13  
 DRO ANALYZED BY EPA METHOD SW8015B  
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B  
 BENZENE, MTBE, & TBA ANALYZED BY EPA METHOD SW8260B  
 [NS] = NOT SAMPLED



Eagle Gas/Oakland/Quantity - JMP REV - October 2, 2013

**STRATUS**  
ENVIRONMENTAL, INC.

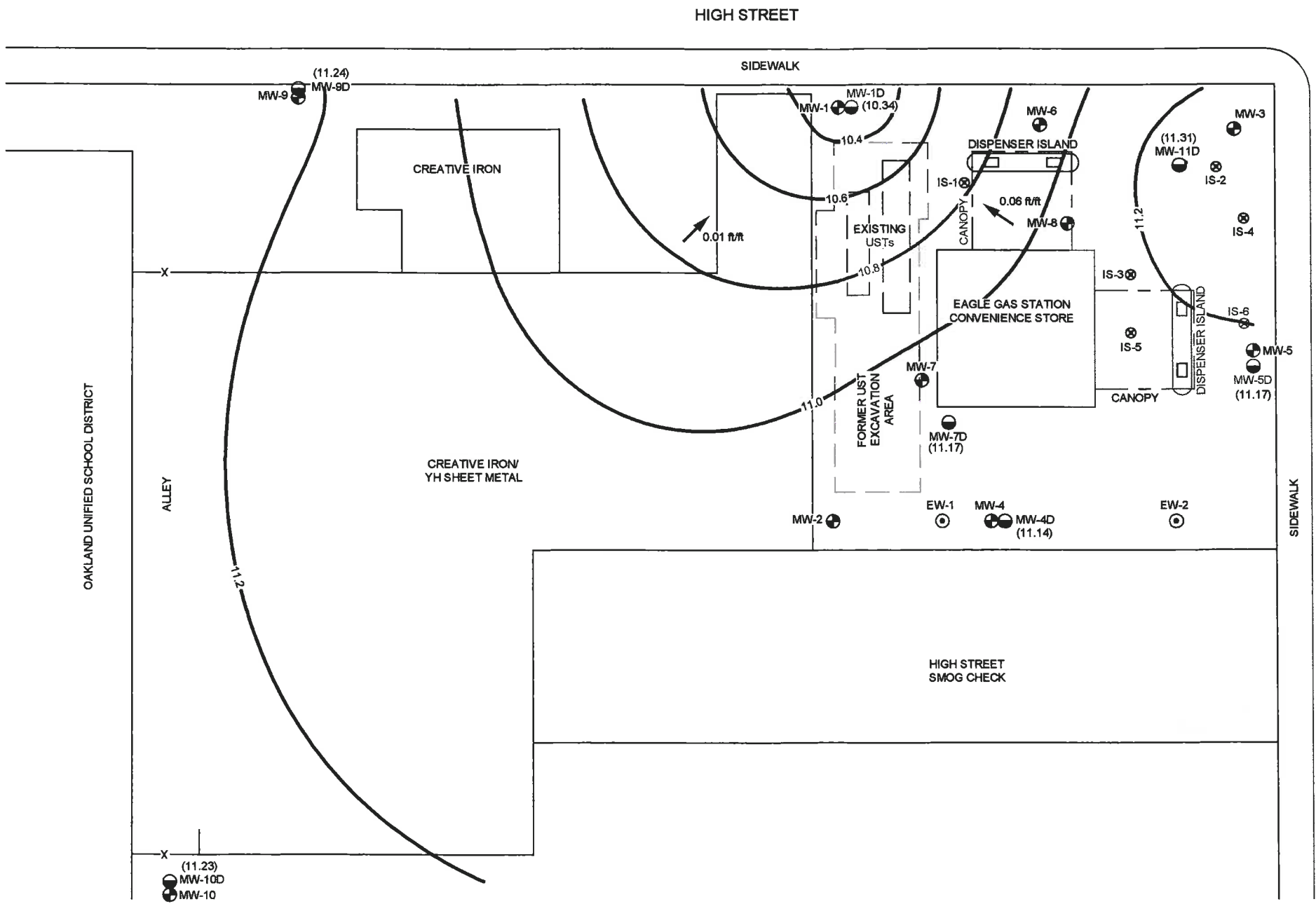


EAGLE GAS STATION  
4301 SAN LEANDRO STREET  
OAKLAND, CALIFORNIA  
GROUNDWATER ANALYTICAL SUMMARY  
SHALLOW SCREENED WELLS  
3rd QUARTER 2013

FIGURE  
**3**  
PROJECT NO.  
2038-4301-01

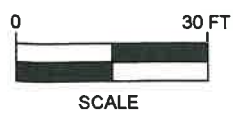


- LEGEND
- MW-1 SHALLOW MONITORING WELL LOCATION
  - MW-1D DEEP MONITORING WELL LOCATION
  - ⊙ EW-1 EXTRACTION WELL LOCATION
  - ⊗ IS-1 INJECTION WELL LOCATION
  - (10.34) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
  - 11.4 - WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
  - ➔ INFERRED DIRECTION OF GROUND WATER FLOW
- WELLS MEASURED: 7/09/13



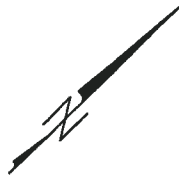
Eagle Gas/Oakland/Quantity JMP REV August 12, 2013 Eagle Oakland Quantity Figures

**STRATUS**  
ENVIRONMENTAL, INC.



EAGLE GAS STATION  
4301 SAN LEANDRO STREET  
OAKLAND, CALIFORNIA  
GROUNDWATER ELEVATION CONTOUR MAP  
DEEP SCREENED WELLS  
3rd QUARTER 2013

FIGURE  
**4**  
PROJECT NO.  
2038-4301-01

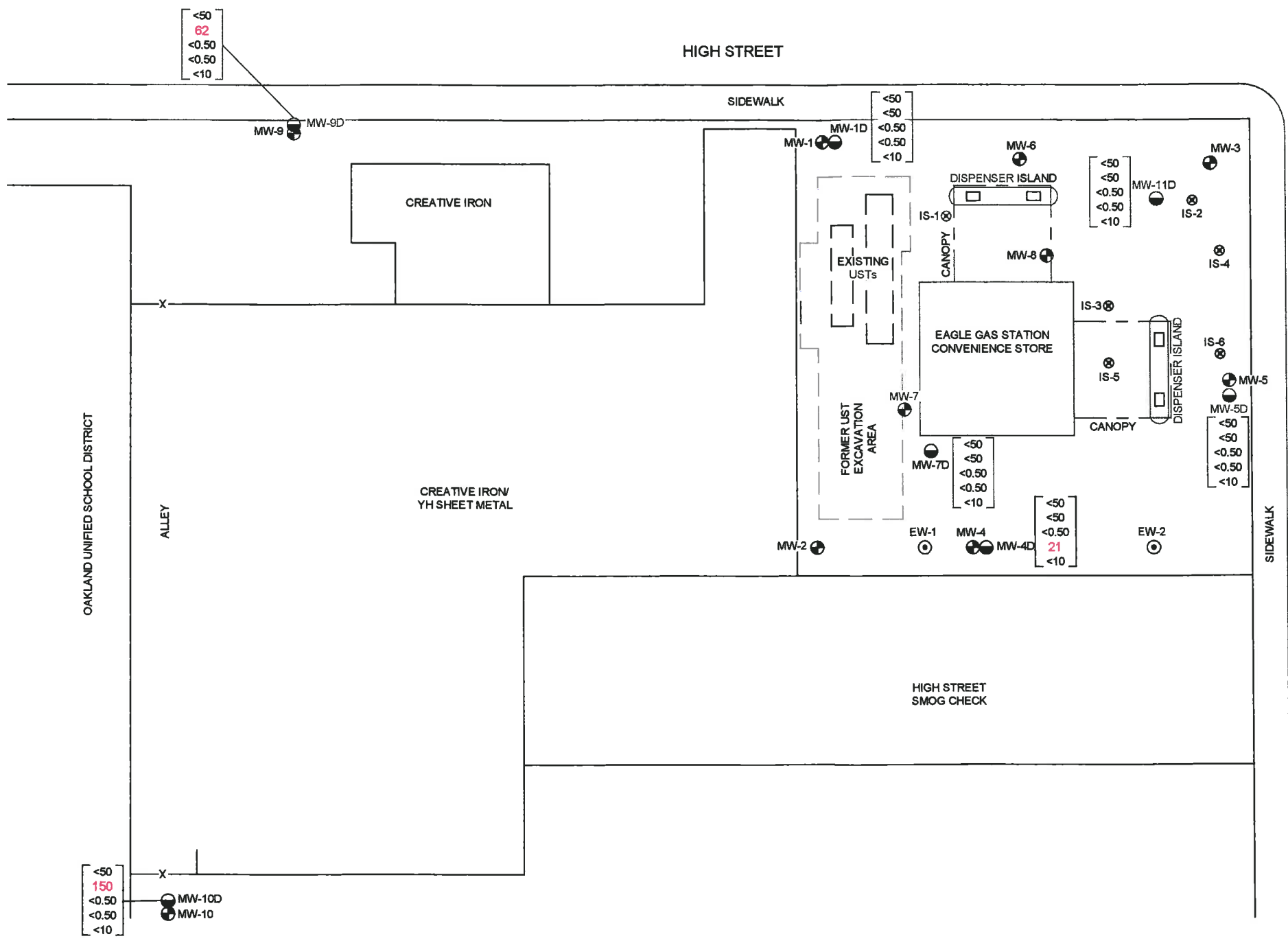


**LEGEND**

- MW-1 SHALLOW MONITORING WELL LOCATION
- MW-1D DEEP MONITORING WELL LOCATION
- ⊙ EW-1 EXTRACTION WELL LOCATION
- ⊗ IS-1 INJECTION WELL LOCATION

<50	DIESEL RANGE ORGANICS (DRO) IN µg/L
<50	GASOLINE RANGE ORGANICS (GRO) IN µg/L
<0.50	BENZENE CONCENTRATION IN µg/L
<0.50	METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L
<10	TERTIARY BUTYL ALCOHOL (TBA) IN µg/L

SAMPLES COLLECTED ON 7/09/13 & 7/10/13  
 DRO ANALYZED BY EPA METHOD SW8015B  
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B  
 BENZENE, MTBE, & TBA ANALYZED BY EPA METHOD SW8260B



Eagle Gas/Oakland/Quantity .JMP REV October 2, 2013

**STRATUS**  
ENVIRONMENTAL, INC.



EAGLE GAS STATION  
4301 SAN LEANDRO STREET  
OAKLAND, CALIFORNIA  
GROUNDWATER ANALYTICAL SUMMARY  
DEEP SCREENED WELLS  
3rd QUARTER 2013

FIGURE  
**5**  
PROJECT NO.  
2038-4301-01

**APPENDIX A**  
**FIELD DATA SHEETS**





Site Address 4301 San Leandro Ave  
 City Oakland  
 Sampled by: Carl Schylze  
 Signature Carl Schylze

Site Number Eagle Gas  
 Project Number 2085-4301-01  
 Project PM \_\_\_\_\_  
 DATE 07/09 - 07/10/13

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-1	1105		2.95	24.74	15.74	2"	0.5	7.90	8					15.36	MW-1	13:38 <sup>7/10</sup>	N/A
MW-1D	1107		15.20	43.02	27.82	2"	0.5	13.91	14					15.20	MW-1D	1352 <sup>7/10</sup>	
MW-2	1033		10.32	24.90	14.58	2"	0.5	7.29	7.5					15.63	MW-2	1403 <sup>7/10</sup>	
MW-3	1306		12.73	23.30	10.57	2"	0.5	5.29	5				dry	18.80	MW-3	1500	
MW-4	0737		9.30	24.39	15.09	2"	0.5	7.56	8					10.16	MW-4	1052	
MW-4D	0734		16.86	41.92	25.06	2"	0.5	12.53	12.5					16.86	MW-4D	1103	
MW-5	1125		8.06	25.74	17.68	2"	0.5	8.84	9					11.90	MW-5	1214	
MW-5D	1123		15.61	42.38	26.77	2"	0.5	13.39	13.5					15.65	MW-5D	1222	
MW-6	1600		12.49	25.53	13.04	2"	0.5	6.52	6.5					20.04	MW-6	1858	
MW-7	0744		11.93	26.15	14.22	2"	0.5	7.11	7.5					21.35	MW-7	0847	
MW-7D	0747		16.75	43.66	26.85	2"	0.5	13.43	13.5					16.76	MW-7D	1027	
MW-8	1655		9.27	24.86	15.59	2"	0.5	7.80	8					9.91	MW-8	1251 <sup>7/10</sup>	
MW-9			could not get in touch with Alex for access											MW-9			
MW-9D	1206		14.25	39.98	25.73	2"	0.5	12.87	13					14.29	MW-9D	1236 <sup>7/10</sup>	
MW-10			2.86	15.11	6.25	2"	0.5	3.13	3					9.42	MW-10	2049	
MW-100			14.06	52.30	38.24	2"	0.5	19.12	20					15.52	MW-100	2055	
MW-11D	1310		16.02	45.13	29.11	2"	0.5	14.56	15					16.05	MW-11D	1519	
IS-1	1624		8.14	25.08	16.94	2"	0.5	8.47	8.5					8.77	IS-1	1911	
IS-2	1312		8.63	24.80	16.17	2"	0.5	8.09	8				16.51	IS-2	1532		
IS-3	1627		9.30	24.18	14.88	2"	0.5	7.44	7.5					9.43	IS-3	1308 <sup>7/10</sup>	
IS-4	1300		9.00	25.10	16.10	2"	0.5	8.05	8					15.00	IS-4	1510	
IS-5	1748		9.18	16.30	7.12	2"	0.5	3.56	3				dry	9.32	IS-5	1326 <sup>7/10</sup>	
IS-6	1233		8.47	25.61	17.14	2"	0.5	8.57	9					12.34	IS-6	1344	✓

some wells did not reach 80% even after hours of sitting

Multiplier  
 2" = 0.5 3" = 1.0 4" = 2.0 6" = 4.4

Please refer to groundwater sampling field procedures  
 pH/Conductivity/temperature Meter - Oakton Model PC-10  
 DO Meter - Oakton 300 Series (DO is always measured before purge)

CALIBRATION DATE  
 pH 07/05/13  
 Conductivity \_\_\_\_\_  
 DO \_\_\_\_\_





Site Address 4301 San Leandro Ave

Site Number Eagle Gas

City Oakland

Project Number 2085-4301-01

Sampled By: Carl Schutke

Project PM

Signature [Handwritten Signature]

DATE 07/09 - 07/10/13

Well ID <u>MW-7</u>					Well ID <u>MW-7D</u>								
Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>	Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>		
				cond	gallons					cond	gallons		
time	0800	18.0	7.16	452 <sub>f</sub>	0	time	0819	17.9	7.22	358 <sub>f</sub>	0		
time	0806	18.1	6.97	423	2	time	0826	18.1	7.20	185.4	4		
time	0812	17.9	6.99	412	5	time	0832	18.2	7.07	184.5	8		
time	0847	20.7	6.92	88.3	7.5	time	1027	18.2	7.10	152.3	13.5		
purge stop time		00: N/A		ORP	15	purge stop time		00: N/A		ORP	35		
Well ID <u>EW-1</u>					Well ID <u>MW-4</u>								
Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>	N	Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>	N
				cond	gallons						cond	gallons	
time	0853	17.8	6.76	159.4 <sub>f</sub>	0		time	0920	17.8	6.62	152.4 <sub>f</sub>	0	
time	0903	17.8	6.71	158.0	10		time	0924	18.2	6.59	152.1	3	
time	0910	17.5	6.70	153.0	20		time	0928	17.7	6.62	153.9	6	
time	1043	18.7	6.83	151.6	dry 28	28	time	1052	18.6	6.77	148.8	8	
purge stop time		00: N/A		ORP	-5		purge stop time		00: N/A		ORP	14	
Well ID <u>MW-4D</u>					Well ID <u>EW-2</u>								
Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>	N	Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>	N
				cond	gallons						cond	gallons	
time	0935	17.7	6.94	155.9 <sub>f</sub>	0		time	1000	17.6	6.52	158.0 <sub>f</sub>	0	
time	0940	17.7	6.99	157.9	4		time	1010	17.7	6.53	158.8	11	
time	0946	17.8	6.95	159.9	8		time	1016	17.9	6.57	155.2	22	
time	1103	18.0	7.36	152.1	12.5		time	1842	18.9	6.98	84.4	dry 23	
purge stop time		00: N/A		ORP	5		purge stop time		00: N/A		ORP	14	
Well ID <u>MW-5</u>					Well ID <u>MW-5D</u>								
Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>	N	Purge start time		Temp C	pH	Odor	Y <input checked="" type="checkbox"/>	N
				cond	gallons						cond	gallons	
time	1131	20.1	6.73	162.0 <sub>f</sub>	0		time	1145	20.6	6.89	283 <sub>f</sub>	0	
time	1135	21.3	6.57	158.8	3		time	1150	19.9	6.89	154.8	4	
time	1138	20.6	6.52	158.7	6		time	1155	19.7	6.83	156.0	8	
time	1214	22.2	6.66	157.0	9		time	1222	20.8	7.20	151.2	13.5	
purge stop time		00: N/A		ORP	31		purge stop time		00: N/A		ORP	18	

①



Site Address : 4301 San Leandro  
 City : Oakland  
 Sampled By: Carl Schulze  
 Signature: *[Handwritten Signature]*

Site Number : Eagle Gas  
 Project Number : 2085-4301-01  
 Project PM :  
 DATE : 07/09 - 07/14/13

Well ID 15-6					Well ID 15-4													
Purge start time		Temp C		pH	cond	gallons	Purge start time		Temp C		pH	cond	gallons					
time	1238	22.4	6.58	149.5 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	time	1329	22.0	6.72	179.2 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	N
time	1243	21.6	6.55	145.1	3				time	1332	22.1	6.59	177.6	2				
time	1246	20.0	6.59	144.1	6				time	1336	22.1	6.53	172.0	5				
time	1349	22.0	7.08	128.9	9				time	1510	23.7	6.95	123.1	8				
purge stop time		DO: N/A			ORP	47	purge stop time		DO: N/A			ORP	47					
Well ID MW-3					Well ID MW-11D													
Purge start time		Temp C		pH	cond	gallons	Purge start time		Temp C		pH	cond	gallons					
time	1403	20.6	7.07	126.7 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	time	1417	20.6	7.16	116.5 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	N
time	1406	20.5	7.07	125.9	2				time	1425	20.3	7.09	114.6	5				
time	1408	20.0	6.82	118.4	4				time	1432	21.0	6.97	114.1	10				
time	1501	21.0	6.91	112.1	dry 5.0				time	1519	21.0	7.15	109.4	15				
purge stop time		DO: N/A			ORP	50	purge stop time		DO: N/A			ORP	51					
Well ID 15-2					Well ID MW-6													
Purge start time		Temp C		pH	cond	gallons	Purge start time		Temp C		pH	cond	gallons					
time	1443	22.2	6.53	119.1 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	time	1605	20.3	6.99	101.3 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	N
time	1446	21.3	6.53	121.0	3				time	1608	19.7	6.81	96.3	2				
time	1450	20.3	6.53	118.1	6				time	1612	19.6	6.76	97.8	4				
time	<del>1450</del> 1532	<del>20.7</del> 20.7	<del>6.96</del> 6.96	<del>114.1</del> 114.1	8				time	1858	20.0	7.03	79.8	6.5				
purge stop time		DO: N/A			ORP	62	purge stop time		DO: N/A			ORP	51					
Well ID 15-1					Well ID MW-8													
Purge start time		Temp C		pH	cond	gallons	Purge start time		Temp C		pH	cond	gallons					
time	1632	6.76	22.1	103.7 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	time	1708	19.2	6.78	93.1 <sub>f</sub>	0	Odor	Y	<input checked="" type="radio"/>	N
time	1636	6.65	20.9	96.0	3				time	1713	18.6	6.64	92.4	3				
time	1640	6.62	20.1	94.1	6				time	1718	18.3	6.65	90.7	6				
time	1911	6.75	21.0	74.2	8.5				time	1254 <sup>7/10</sup>	19.2	6.91	71.1	2				
purge stop time		DO: N/A			ORP	58	purge stop time		DO: N/A			ORP	47					



Site Address \_\_\_\_\_  
 City \_\_\_\_\_  
 Sampled By: Carl Schutze  
 Signature: [Signature]

Site Number Eagle Gas  
 Project Number \_\_\_\_\_  
 Project PM \_\_\_\_\_  
 DATE 07/09 - 07/10/13

Well ID 15-3					Well ID 15-5				
Purge start time			Odor <input checked="" type="radio"/> Y <input type="radio"/> N		Purge start time			Odor <input checked="" type="radio"/> Y <input type="radio"/> N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time 1734	18.5	6.93	90.5 <sub>f</sub>	0	time 1755	18.8	6.62	81.1 <sub>f</sub>	0
time 1738	18.5	6.68	80.2	2	time 1758	18.8	6.51	78.5	2
time 1742	18.3	6.54	78.3	5	time 1326 <sup>7/10</sup>	19.5	6.86	61.6	dry #3
time 1808	19.6	6.89	63.5	7.5	time				
purge stop time DO: N/A			ORP 26		purge stop time DO: N/A			ORP 17	
Well ID MW-10					Well ID MW-10 D				
Purge start time			Odor Y <input checked="" type="radio"/> <input type="radio"/> N		Purge start time			Odor Y <input checked="" type="radio"/> <input type="radio"/> N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time 2001	17.6	7.40	90.4 <sub>f</sub>	0	time 2011	16.8	7.20	76.3 <sub>f</sub>	0
time 2005	17.2	7.18	89.9	1.5	time 2022	17.2	7.19	74.1	7
time 2049	17.4	7.08	86.9	3	time 2031	17.2	7.26	74.7	14
time					time 2055	17.2	7.29	75.5	20
purge stop time DO: N/A			ORP 13		purge stop time DO: N/A			ORP 37	
Well ID MW-2					Well ID MW-1				
Purge start time			Odor Y <input checked="" type="radio"/> <input type="radio"/> N		Purge start time			Odor Y <input checked="" type="radio"/> <input type="radio"/> N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time 1047	18.9	7.12	54.0 <sub>f</sub>	0	time 1116	22.1	6.89	63.7 <sub>f</sub>	0
time 1051	18.0	6.95	53.0	2	time 1120	20.8	6.84	61.2	3
time 1055	17.6	6.87	54.1	5	time 1124	20.0	6.78	59.7	6
time 1403 <sup>7/10</sup>	18.8	7.55	66.0	7.5	time 1338 <sup>7/10</sup>	20.7	7.33	64.9	8
purge stop time DO: N/A			ORP		purge stop time DO: N/A			ORP 44	
Well ID MW-10					Well ID MW-90				
Purge start time			Odor Y <input checked="" type="radio"/> <input type="radio"/> N		Purge start time			Odor Y <input checked="" type="radio"/> <input type="radio"/> N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time 1131	20.3	7.16	56.8 <sub>f</sub>	0	time 1210	20.1	7.18	72.1 <sub>f</sub>	0
time 1138	20.0	7.00	64.6	5	time 1216	19.4	7.08	67.7	4
time 1144	19.9	7.01	65.5	10	time 1220	20.1	7.01	67.3	8
time 1352 <sup>7/10</sup>	20.9	7.54	73.8	14	time 1236	20.1	7.16	71.0	13
purge stop time DO: N/A			ORP 44		purge stop time DO: N/A			ORP 45	

## **APPENDIX B**

### **SAMPLING AND ANALYSES PROCEDURES**

## **SAMPLING AND ANALYSIS PROCEDURES**

---

The sampling and analysis procedures as well as the quality assurance plan are contained in this appendix. The procedures and adherence to the quality assurance plan will provide for consistent and reproducible sampling methods; proper application of analytical methods; accurate and precise analytical results; and finally, these procedures will provide guidelines so that the overall objectives of the monitoring program are achieved.

### **Ground Water and Liquid-Phase Petroleum Hydrocarbon Depth Assessment**

A water/hydrocarbon interface probe is used to assess the liquid-phase petroleum hydrocarbon (LPH) thickness, if present, and a water level indicator is used to measure the ground water depth in monitoring wells that do not contain LPH. Depth to ground water or LPH is measured from a datum point at the top of each monitoring well casing. The datum point is typically a notch cut in the north side of the casing edge. If a water level indicator is used, the tip is subjectively analyzed for hydrocarbon sheen.

### **Subjective Analysis of Ground Water**

Prior to purging, a water sample is collected from the monitoring well for subjective assessment. The sample is retrieved by gently lowering a clean, disposable bailer to approximately one-half the bailer length past the air/liquid interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating LPH and the appearance of a LPH sheen.

### **Monitoring Well Purging and Sampling**

Monitoring wells are purged using a pump or bailer until pH, temperature, and conductivity of the purge water has stabilized and a minimum of three well volumes of water have been removed. If three well volumes can not be removed in one half hour's time the well is allowed to recharge to 80% of original level. After recharging, a ground water sample is then removed from each of the wells using a disposable bailer.

A Teflon bailer, electric submersible or bladder pump will be the only equipment used for well sampling. When samples for volatile organic analysis are being collected, the pump flow will be regulated at approximately 100 milliliters per minute to minimize pump effluent turbulence and aeration. Glass bottles of at least 40-milliliters volume and fitted with Teflon-lined septa will be used in sampling for volatile organics. These bottles will be filled completely to prevent air from remaining in the bottle. A positive meniscus forms when the bottle is completely full. A convex Teflon septum will be placed over the positive meniscus to eliminate air. After the bottle is capped, it is inverted and tapped to verify that it contains no air bubbles. The sample containers for other parameters will be filled, filtered as required, and capped.

The water sample is collected, labeled, and handled according to the Quality Assurance Plan. Water generated during the monitoring event is disposed of according to regulatory accepted method pertaining to the site.

## **QUALITY ASSURANCE PLAN**

Procedures to provide data quality should be established and documented so that conditions adverse to quality, such as deficiencies, deviations, nonconformants, defective material, services, and/or equipment, can be promptly identified and corrected.

### **General Sample Collection and Handling Procedures**

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

### **Soil and Water Sample Labeling and Preservation**

Label information includes a unique sample identification number, job identification number, date, and time. After labeling all soil and water samples are placed in a Ziploc<sup>®</sup> type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Stratus' office the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain-of-custody form. Trip blanks supplied by the laboratory accompany the groundwater sample containers and groundwater samples.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon<sup>®</sup> sheeting and plastic caps. The sample is then placed in a Ziploc<sup>®</sup> type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

### **Sample Identification and Chain-of-Custody Procedures**

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. The samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and



noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis. These conditions are noted on a Laboratory Sample Receipt Checklist that becomes part of the laboratory report upon request.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book maintained by the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

### **Equipment Cleaning**

Sample bottles, caps, and septa used in sampling for volatile and semivolatile organics will be triple rinsed with high-purity deionized water. After being rinsed, sample bottles will be dried overnight at a temperature of 200°C. Sample caps and septa will be dried overnight at a temperature of 60°C. Sample bottles, caps, and septa will be protected from solvent contact between drying and actual use at the sampling site. Sampling containers will be used only once and discarded after analysis is complete.

Plastic bottles and caps used in sampling for metals will be soaked overnight in a 1-percent nitric acid solution. Next, the bottles and caps will be triple rinsed with deionized water. Finally, the bottles and caps will be air dried before being used at the site. Plastic bottles and caps will be constructed of linear polyethylene or polypropylene. Sampling containers will be used only once and discarded after analysis is complete. Glass and plastic bottles used by Stratus to collect groundwater samples are supplied by the laboratory.

Before the sampling event is started, equipment that will be placed in the well or will come in contact with groundwater will be disassembled and cleaned thoroughly with detergent water, and then steam cleaned with deionized water. Any parts that may absorb contaminants, such as plastic pump valves, etc. will be cleaned as described above or replaced.

During field sampling, equipment surfaces that are placed in the well or contact groundwater will be steam cleaned with deionized water before the next well is purged or sampled. Equipment blanks will be collected and analyzed from non-disposable sampling equipment that is used for collecting groundwater samples at the rate of one blank per twenty samples collected.

### **Internal Quality Assurance Checks**

Internal quality assurance procedures are designed to provide reliability of monitoring and measurement of data. Both field and laboratory quality assurance checks are necessary to evaluate the reliability of sampling and analysis results. Internal quality assurance procedures generally include:

- Laboratory Quality Assurance

- Documentation of instrument performance checks
- Documentation of instrument calibration
- Documentation of the traceability of instrument standards, samples, and data
- Documentation of analytical and QC methodology (QC methodology includes use of spiked samples, duplicate samples, split samples, use of reference blanks, and check standards to check method accuracy and precision)

- Field Quality Assurance

- Documentation of sample preservation and transportation
- Documentation of field instrument calibration and irregularities in performance

Internal laboratory quality assurance checks will be the responsibility of the contract laboratories. Data and reports submitted by field personnel and the contract laboratory will be reviewed and maintained in the project files.

**Types of Quality Control Checks**

Samples are analyzed using analytical methods outlined in EPA Manual SW 846 and approved by the California Regional Water Quality Control Board-Central Valley Region in the Leaking Underground Fuel Tanks (LUFT) manual and appendices. Standard contract laboratory quality control may include analysis or use of the following:

- Method blanks – reagent water used to prepare calibration standards, spike solutions, etc. is analyzed in the same manner as the sample to demonstrate that analytical interferences are under control.
- Matrix spiked samples – a known amount of spike solution containing selected constituents is added to the sample at concentrations at which the accuracy of the analytical method is to satisfactorily monitor and evaluate laboratory data quality.
- Split samples – a sample is split into two separate aliquots before analysis to assess the reproducibility of the analysis.
- Surrogate samples – samples are spiked with surrogate constituents at known concentrations to monitor both the performance of the analytical system and the effectiveness of the method in dealing with the sample matrix.
- Control charts – graphical presentation of spike or split sample results used to track the accuracy or precision of the analysis.
- Quality control check samples – when spiked sample analysis indicates atypical instrument performance, a quality check sample, which is prepared independently of the calibration standards and contains the constituents of interest, is analyzed to confirm that measurements were performed accurately.

- Calibration standards and devices – traceable standards or devices to set instrument response so that sample analysis results represent the absolute concentration of the constituent.

Field QA samples will be collected to assess sample handling procedures and conditions. Standard field quality control may include the use of the following, and will be collected and analyzed as outlined in EPA Manual SW 846.

- Field blanks – reagent water samples are prepared at the sampling location by the same procedure used to collect field groundwater samples and analyzed with the groundwater samples to assess the impact of sampling techniques on data quality. Typically, one field blank per twenty groundwater samples collected will be analyzed per sampling event.
- Field replicates – duplicate or triplicate samples are collected and analyzed to assess the reproducibility of the analytical data. One replicate groundwater sample per twenty samples collected will be analyzed per sampling event, unless otherwise specified. Triplicate samples will be collected only when specific conditions warrant and generally are sent to an alternate laboratory to confirm the accuracy of the routinely used laboratory.
- Trip blanks – reagent water samples are prepared before field work, transported and stored with the samples and analyzed to assess the impact of sample transport and storage for data quality. In the event that any analyte is detected in the field blank, a trip blank will be included in the subsequent groundwater sampling event.

Data reliability will be evaluated by the certified laboratory and reported on a cover sheet attached to the laboratory data report. Analytical data resulting from the testing of field or trip blanks will be included in the laboratory's report. Results from matrix spike, surrogate, and method blank testing will be reported, along with a statement of whether the samples were analyzed within the appropriate holding time.

Stratus will evaluate the laboratory's report on data reliability and note significant QC results that may make the data biased or unacceptable. Data viability will be performed as outlined in EPA Manual SW 846. If biased or unacceptable data is noted, corrective actions (including re-sample/re-analyze, etc.) will be evaluated on a site-specific basis.

## **APPENDIX C**

### **LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Stratus Environmental  
3330 Cameron Park Drive  
Cameron Park, CA 956828861

Attn: Kasey Jones  
Phone: (530) 676-6004  
Fax: (530) 676-6005  
Date Received.: 07/12/13

Job: Eagle Gas

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B  
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	MW-1				
Lab ID :	STR13071231-01A				
Date Sampled	07/10/13 13:38				
	TPH-E (DRO)	1,100 Z	50 µg/L	07/15/13	07/15/13
	TPH-P (GRO)	ND V	1,000 µg/L	07/16/13	07/16/13
	Tertiary Butyl Alcohol (TBA)	5,900	100 µg/L	07/16/13	07/16/13
	Methyl tert-butyl ether (MTBE)	21	5.0 µg/L	07/16/13	07/16/13
	Di-isopropyl Ether (DIPE)	ND V	10 µg/L	07/16/13	07/16/13
	Ethyl Tertiary Butyl Ether (ETBE)	ND V	10 µg/L	07/16/13	07/16/13
	Benzene	ND V	5.0 µg/L	07/16/13	07/16/13
	Tertiary Amyl Methyl Ether (TAME)	ND V	10 µg/L	07/16/13	07/16/13
	Toluene	ND V	5.0 µg/L	07/16/13	07/16/13
	Ethylbenzene	ND V	5.0 µg/L	07/16/13	07/16/13
	m,p-Xylene	ND V	5.0 µg/L	07/16/13	07/16/13
	o-Xylene	ND V	5.0 µg/L	07/16/13	07/16/13
Client ID :	MW-1D				
Lab ID :	STR13071231-02A				
Date Sampled	07/10/13 13:52				
	TPH-E (DRO)	ND	50 µg/L	07/15/13	07/15/13
	TPH-P (GRO)	ND	50 µg/L	07/16/13	07/16/13
	Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/16/13	07/16/13
	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/16/13	07/16/13
	Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/16/13	07/16/13
	Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/16/13	07/16/13
	Benzene	ND	0.50 µg/L	07/16/13	07/16/13
	Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/16/13	07/16/13
	Toluene	ND	0.50 µg/L	07/16/13	07/16/13
	Ethylbenzene	ND	0.50 µg/L	07/16/13	07/16/13
	m,p-Xylene	ND	0.50 µg/L	07/16/13	07/16/13
	o-Xylene	ND	0.50 µg/L	07/16/13	07/16/13
Client ID :	MW-2				
Lab ID :	STR13071231-03A				
Date Sampled	07/10/13 14:03				
	TPH-E (DRO)	120 Z	50 µg/L	07/15/13	07/15/13
	TPH-P (GRO)	ND V	2,000 µg/L	07/16/13	07/16/13
	Tertiary Butyl Alcohol (TBA)	7,400	200 µg/L	07/16/13	07/16/13
	Methyl tert-butyl ether (MTBE)	39	10 µg/L	07/16/13	07/16/13
	Di-isopropyl Ether (DIPE)	ND V	20 µg/L	07/16/13	07/16/13
	Ethyl Tertiary Butyl Ether (ETBE)	ND V	20 µg/L	07/16/13	07/16/13
	Benzene	ND V	10 µg/L	07/16/13	07/16/13
	Tertiary Amyl Methyl Ether (TAME)	ND V	20 µg/L	07/16/13	07/16/13
	Toluene	ND V	10 µg/L	07/16/13	07/16/13
	Ethylbenzene	ND V	10 µg/L	07/16/13	07/16/13
	m,p-Xylene	ND V	10 µg/L	07/16/13	07/16/13
	o-Xylene	ND V	10 µg/L	07/16/13	07/16/13



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	MW-3						
Lab ID :	STR13071231-04A	TPH-E (DRO)	ND		50 µg/L	07/15/13	07/15/13
Date Sampled	07/09/13 15:01	TPH-P (GRO)	ND	V	2,000 µg/L	07/16/13	07/16/13
		Tertiary Butyl Alcohol (TBA)	11,000		200 µg/L	07/16/13	07/16/13
		Methyl tert-butyl ether (MTBE)	520		10 µg/L	07/16/13	07/16/13
		Di-isopropyl Ether (DIPE)	29		20 µg/L	07/16/13	07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	20 µg/L	07/16/13	07/16/13
		Benzene	ND	V	10 µg/L	07/16/13	07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	20 µg/L	07/16/13	07/16/13
		Toluene	ND	V	10 µg/L	07/16/13	07/16/13
		Ethylbenzene	ND	V	10 µg/L	07/16/13	07/16/13
		m,p-Xylene	ND	V	10 µg/L	07/16/13	07/16/13
		o-Xylene	ND	V	10 µg/L	07/16/13	07/16/13
Client ID :	MW-4						
Lab ID :	STR13071231-05A	TPH-E (DRO)	970	Z	50 µg/L	07/15/13	07/15/13
Date Sampled	07/09/13 10:52	TPH-P (GRO)	ND	V	20,000 µg/L	07/16/13	07/16/13
		Tertiary Butyl Alcohol (TBA)	120,000		2,000 µg/L	07/16/13	07/16/13
		Methyl tert-butyl ether (MTBE)	230		100 µg/L	07/16/13	07/16/13
		Di-isopropyl Ether (DIPE)	ND	V	200 µg/L	07/16/13	07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	200 µg/L	07/16/13	07/16/13
		Benzene	ND	V	100 µg/L	07/16/13	07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	200 µg/L	07/16/13	07/16/13
		Toluene	ND	V	100 µg/L	07/16/13	07/16/13
		Ethylbenzene	560		100 µg/L	07/16/13	07/16/13
		m,p-Xylene	1,500		100 µg/L	07/16/13	07/16/13
		o-Xylene	ND	V	100 µg/L	07/16/13	07/16/13
Client ID :	MW-4D						
Lab ID :	STR13071231-06A	TPH-E (DRO)	ND		50 µg/L	07/15/13	07/15/13
Date Sampled	07/09/13 11:03	TPH-P (GRO)	ND		50 µg/L	07/17/13	07/17/13
		Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/13	07/17/13
		Methyl tert-butyl ether (MTBE)	21		0.50 µg/L	07/17/13	07/17/13
		Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	07/17/13	07/17/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	07/17/13	07/17/13
		Benzene	ND		0.50 µg/L	07/17/13	07/17/13
		Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/17/13	07/17/13
		Toluene	ND		0.50 µg/L	07/17/13	07/17/13
		Ethylbenzene	ND		0.50 µg/L	07/17/13	07/17/13
		m,p-Xylene	ND		0.50 µg/L	07/17/13	07/17/13
		o-Xylene	ND		0.50 µg/L	07/17/13	07/17/13
Client ID :	MW-5						
Lab ID :	STR13071231-07A	TPH-E (DRO)	290		50 µg/L	07/15/13	07/15/13
Date Sampled	07/09/13 12:14	TPH-P (GRO)	ND	V	50,000 µg/L	07/16/13	07/16/13
		Tertiary Butyl Alcohol (TBA)	260,000		5,000 µg/L	07/16/13	07/16/13
		Methyl tert-butyl ether (MTBE)	250		250 µg/L	07/16/13	07/16/13
		Di-isopropyl Ether (DIPE)	ND	V	500 µg/L	07/16/13	07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	500 µg/L	07/16/13	07/16/13
		Benzene	ND	V	250 µg/L	07/16/13	07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	500 µg/L	07/16/13	07/16/13
		Toluene	ND	V	250 µg/L	07/16/13	07/16/13
		Ethylbenzene	ND	V	250 µg/L	07/16/13	07/16/13
		m,p-Xylene	ND	V	250 µg/L	07/16/13	07/16/13
		o-Xylene	ND	V	250 µg/L	07/16/13	07/16/13



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	MW-5D						
Lab ID :	STR13071231-08A	TPH-E (DRO)	ND	50 µg/L	07/15/13	07/15/13	
Date Sampled	07/09/13 12:22	TPH-P (GRO)	ND	50 µg/L	07/17/13	07/17/13	
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/17/13	07/17/13	
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/17/13	07/17/13	
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/17/13	07/17/13	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/17/13	07/17/13	
		Benzene	ND	0.50 µg/L	07/17/13	07/17/13	
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/17/13	07/17/13	
		Toluene	ND	0.50 µg/L	07/17/13	07/17/13	
		Ethylbenzene	ND	0.50 µg/L	07/17/13	07/17/13	
		m,p-Xylene	ND	0.50 µg/L	07/17/13	07/17/13	
		o-Xylene	ND	0.50 µg/L	07/17/13	07/17/13	
Client ID :	MW-6						
Lab ID :	STR13071231-09A	TPH-E (DRO)	460	50 µg/L	07/15/13	07/15/13	
Date Sampled	07/09/13 18:58	TPH-P (GRO)	ND	V	4,000 µg/L	07/16/13	07/16/13
		Tertiary Butyl Alcohol (TBA)	23,000		400 µg/L	07/16/13	07/16/13
		Methyl tert-butyl ether (MTBE)	330		20 µg/L	07/16/13	07/16/13
		Di-isopropyl Ether (DIPE)	ND	V	40 µg/L	07/16/13	07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	40 µg/L	07/16/13	07/16/13
		Benzene	360		20 µg/L	07/16/13	07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	40 µg/L	07/16/13	07/16/13
		Toluene	ND	V	20 µg/L	07/16/13	07/16/13
		Ethylbenzene	ND	V	20 µg/L	07/16/13	07/16/13
		m,p-Xylene	ND	V	20 µg/L	07/16/13	07/16/13
		o-Xylene	ND	V	20 µg/L	07/16/13	07/16/13
Client ID :	MW-7						
Lab ID :	STR13071231-10A	TPH-E (DRO)	52	50 µg/L	07/15/13	07/15/13	
Date Sampled	07/09/13 08:47	TPH-P (GRO)	ND	V	5,000 µg/L	07/16/13	07/16/13
		Tertiary Butyl Alcohol (TBA)	32,000		500 µg/L	07/16/13	07/16/13
		Methyl tert-butyl ether (MTBE)	40		25 µg/L	07/16/13	07/16/13
		Di-isopropyl Ether (DIPE)	ND	V	50 µg/L	07/16/13	07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	50 µg/L	07/16/13	07/16/13
		Benzene	ND	V	25 µg/L	07/16/13	07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	50 µg/L	07/16/13	07/16/13
		Toluene	ND	V	25 µg/L	07/16/13	07/16/13
		Ethylbenzene	ND	V	25 µg/L	07/16/13	07/16/13
		m,p-Xylene	ND	V	25 µg/L	07/16/13	07/16/13
		o-Xylene	ND	V	25 µg/L	07/16/13	07/16/13
Client ID :	MW-7D						
Lab ID :	STR13071231-11A	TPH-E (DRO)	ND	50 µg/L	07/15/13	07/15/13	
Date Sampled	07/09/13 10:27	TPH-P (GRO)	ND	50 µg/L	07/16/13	07/16/13	
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/16/13	07/16/13	
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/16/13	07/16/13	
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/16/13	07/16/13	
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/16/13	07/16/13	
		Benzene	ND	0.50 µg/L	07/16/13	07/16/13	
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/16/13	07/16/13	
		Toluene	ND	0.50 µg/L	07/16/13	07/16/13	
		Ethylbenzene	ND	0.50 µg/L	07/16/13	07/16/13	
		m,p-Xylene	ND	0.50 µg/L	07/16/13	07/16/13	
		o-Xylene	ND	0.50 µg/L	07/16/13	07/16/13	



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : MW-8

Lab ID : STR13071231-12A

Date Sampled 07/10/13 12:54

TPH-E (DRO)	1,700	L	50 µg/L	07/15/13	07/15/13
TPH-P (GRO)	ND	V	20,000 µg/L	07/16/13	07/16/13
Tertiary Butyl Alcohol (TBA)	92,000		2,000 µg/L	07/16/13	07/16/13
Methyl tert-butyl ether (MTBE)	240		100 µg/L	07/16/13	07/16/13
Di-isopropyl Ether (DIPE)	ND	V	200 µg/L	07/16/13	07/16/13
Ethyl Tertiary Butyl Ether (ETBE)	ND	V	200 µg/L	07/16/13	07/16/13
Benzene	ND	V	100 µg/L	07/16/13	07/16/13
Tertiary Amyl Methyl Ether (TAME)	ND	V	200 µg/L	07/16/13	07/16/13
Toluene	ND	V	100 µg/L	07/16/13	07/16/13
Ethylbenzene	ND	V	100 µg/L	07/16/13	07/16/13
m,p-Xylene	ND	V	100 µg/L	07/16/13	07/16/13
o-Xylene	ND	V	100 µg/L	07/16/13	07/16/13

Client ID : MW-9D

Lab ID : STR13071231-13A

Date Sampled 07/10/13 12:36

TPH-E (DRO)	ND		50 µg/L	07/15/13	07/15/13
TPH-P (GRO)	62		50 µg/L	07/17/13	07/17/13
Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/17/13	07/17/13
Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	07/17/13	07/17/13
Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	07/17/13	07/17/13
Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	07/17/13	07/17/13
Benzene	ND		0.50 µg/L	07/17/13	07/17/13
Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/17/13	07/17/13
Toluene	ND		0.50 µg/L	07/17/13	07/17/13
Ethylbenzene	ND		0.50 µg/L	07/17/13	07/17/13
m,p-Xylene	ND		0.50 µg/L	07/17/13	07/17/13
o-Xylene	ND		0.50 µg/L	07/17/13	07/17/13

Client ID : MW-10

Lab ID : STR13071231-14A

Date Sampled 07/09/13 20:49

TPH-E (DRO)	110	K	50 µg/L	07/15/13	07/15/13
TPH-P (GRO)	9,700		1,000 µg/L	07/16/13	07/16/13
Tertiary Butyl Alcohol (TBA)	ND	V	100 µg/L	07/16/13	07/16/13
Methyl tert-butyl ether (MTBE)	470		5.0 µg/L	07/16/13	07/16/13
Di-isopropyl Ether (DIPE)	10		10 µg/L	07/16/13	07/16/13
Ethyl Tertiary Butyl Ether (ETBE)	ND	V	10 µg/L	07/16/13	07/16/13
Benzene	340		5.0 µg/L	07/16/13	07/16/13
Tertiary Amyl Methyl Ether (TAME)	ND	V	10 µg/L	07/16/13	07/16/13
Toluene	19		5.0 µg/L	07/16/13	07/16/13
Ethylbenzene	380		5.0 µg/L	07/16/13	07/16/13
m,p-Xylene	78		5.0 µg/L	07/16/13	07/16/13
o-Xylene	12		5.0 µg/L	07/16/13	07/16/13

Client ID : MW-10D

Lab ID : STR13071231-15A

Date Sampled 07/09/13 20:55

TPH-E (DRO)	ND		50 µg/L	07/15/13	07/15/13
TPH-P (GRO)	150		50 µg/L	07/16/13	07/16/13
Tertiary Butyl Alcohol (TBA)	ND		10 µg/L	07/16/13	07/16/13
Methyl tert-butyl ether (MTBE)	ND		0.50 µg/L	07/16/13	07/16/13
Di-isopropyl Ether (DIPE)	ND		1.0 µg/L	07/16/13	07/16/13
Ethyl Tertiary Butyl Ether (ETBE)	ND		1.0 µg/L	07/16/13	07/16/13
Benzene	ND		0.50 µg/L	07/16/13	07/16/13
Tertiary Amyl Methyl Ether (TAME)	ND		1.0 µg/L	07/16/13	07/16/13
Toluene	ND		0.50 µg/L	07/16/13	07/16/13
Ethylbenzene	ND		0.50 µg/L	07/16/13	07/16/13
m,p-Xylene	ND		0.50 µg/L	07/16/13	07/16/13
o-Xylene	ND		0.50 µg/L	07/16/13	07/16/13





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : MW-11D					
Lab ID :	STR13071231-16A	TPH-E (DRO)	ND	50 µg/L	07/15/13 07/15/13
Date Sampled	07/09/13 15:19	TPH-P (GRO)	ND	50 µg/L	07/16/13 07/16/13
		Tertiary Butyl Alcohol (TBA)	ND	10 µg/L	07/16/13 07/16/13
		Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/16/13 07/16/13
		Di-isopropyl Ether (DIPE)	ND	1.0 µg/L	07/16/13 07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	1.0 µg/L	07/16/13 07/16/13
		Benzene	ND	0.50 µg/L	07/16/13 07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND	1.0 µg/L	07/16/13 07/16/13
		Toluene	ND	0.50 µg/L	07/16/13 07/16/13
		Ethylbenzene	ND	0.50 µg/L	07/16/13 07/16/13
		m,p-Xylene	ND	0.50 µg/L	07/16/13 07/16/13
		o-Xylene	ND	0.50 µg/L	07/16/13 07/16/13
Client ID : IS-1					
Lab ID :	STR13071231-17A	TPH-E (DRO)	360	50 µg/L	07/15/13 07/15/13
Date Sampled	07/09/13 19:11	TPH-P (GRO)	ND V	400 µg/L	07/16/13 07/16/13
		Tertiary Butyl Alcohol (TBA)	3,400	40 µg/L	07/16/13 07/16/13
		Methyl tert-butyl ether (MTBE)	6.1	2.0 µg/L	07/16/13 07/16/13
		Di-isopropyl Ether (DIPE)	ND V	4.0 µg/L	07/16/13 07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND V	4.0 µg/L	07/16/13 07/16/13
		Benzene	ND V	2.0 µg/L	07/16/13 07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND V	4.0 µg/L	07/16/13 07/16/13
		Toluene	ND V	2.0 µg/L	07/16/13 07/16/13
		Ethylbenzene	ND V	2.0 µg/L	07/16/13 07/16/13
		m,p-Xylene	ND V	2.0 µg/L	07/16/13 07/16/13
		o-Xylene	ND V	2.0 µg/L	07/16/13 07/16/13
Client ID : IS-2					
Lab ID :	STR13071231-18A	TPH-E (DRO)	840	50 µg/L	07/15/13 07/16/13
Date Sampled	07/09/13 15:32	TPH-P (GRO)	ND V	10,000 µg/L	07/16/13 07/16/13
		Tertiary Butyl Alcohol (TBA)	68,000	1,000 µg/L	07/16/13 07/16/13
		Methyl tert-butyl ether (MTBE)	5,200	50 µg/L	07/16/13 07/16/13
		Di-isopropyl Ether (DIPE)	ND V	100 µg/L	07/16/13 07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND V	100 µg/L	07/16/13 07/16/13
		Benzene	ND V	50 µg/L	07/16/13 07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND V	100 µg/L	07/16/13 07/16/13
		Toluene	ND V	50 µg/L	07/16/13 07/16/13
		Ethylbenzene	ND V	50 µg/L	07/16/13 07/16/13
		m,p-Xylene	ND V	50 µg/L	07/16/13 07/16/13
		o-Xylene	ND V	50 µg/L	07/16/13 07/16/13
Client ID : IS-3					
Lab ID :	STR13071231-19A	TPH-E (DRO)	1,800 Z	50 µg/L	07/15/13 07/16/13
Date Sampled	07/10/13 13:08	TPH-P (GRO)	ND V	40,000 µg/L	07/16/13 07/16/13
		Tertiary Butyl Alcohol (TBA)	210,000	4,000 µg/L	07/16/13 07/16/13
		Methyl tert-butyl ether (MTBE)	2,200	200 µg/L	07/16/13 07/16/13
		Di-isopropyl Ether (DIPE)	ND V	400 µg/L	07/16/13 07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND V	400 µg/L	07/16/13 07/16/13
		Benzene	340	200 µg/L	07/16/13 07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND V	400 µg/L	07/16/13 07/16/13
		Toluene	ND V	200 µg/L	07/16/13 07/16/13
		Ethylbenzene	ND V	200 µg/L	07/16/13 07/16/13
		m,p-Xylene	ND V	200 µg/L	07/16/13 07/16/13
		o-Xylene	ND V	200 µg/L	07/16/13 07/16/13



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID :	IS-4						
Lab ID :	STR13071231-20A	TPH-E (DRO)	6,500	Z	50 µg/L	07/15/13	07/16/13
Date Sampled	07/09/13 15:10	TPH-P (GRO)	ND	V	20,000 µg/L	07/16/13	07/16/13
		Tertiary Butyl Alcohol (TBA)	88,000		2,000 µg/L	07/16/13	07/16/13
		Methyl tert-butyl ether (MTBE)	160		100 µg/L	07/16/13	07/16/13
		Di-isopropyl Ether (DIPE)	ND	V	200 µg/L	07/16/13	07/16/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	200 µg/L	07/16/13	07/16/13
		Benzene	ND	V	100 µg/L	07/16/13	07/16/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	200 µg/L	07/16/13	07/16/13
		Toluene	ND	V	100 µg/L	07/16/13	07/16/13
		Ethylbenzene	ND	V	100 µg/L	07/16/13	07/16/13
		m,p-Xylene	ND	V	100 µg/L	07/16/13	07/16/13
		o-Xylene	ND	V	100 µg/L	07/16/13	07/16/13
Client ID :	IS-5						
Lab ID :	STR13071231-21A	TPH-E (DRO)	910	Z	50 µg/L	07/15/13	07/16/13
Date Sampled	07/10/13 13:26	TPH-P (GRO)	ND	V	20,000 µg/L	07/17/13	07/17/13
		Tertiary Butyl Alcohol (TBA)	120,000		2,000 µg/L	07/17/13	07/17/13
		Methyl tert-butyl ether (MTBE)	160		100 µg/L	07/17/13	07/17/13
		Di-isopropyl Ether (DIPE)	ND	V	200 µg/L	07/17/13	07/17/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	200 µg/L	07/17/13	07/17/13
		Benzene	200		100 µg/L	07/17/13	07/17/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	200 µg/L	07/17/13	07/17/13
		Toluene	ND	V	100 µg/L	07/17/13	07/17/13
		Ethylbenzene	210		100 µg/L	07/17/13	07/17/13
		m,p-Xylene	ND	V	100 µg/L	07/17/13	07/17/13
		o-Xylene	ND	V	100 µg/L	07/17/13	07/17/13
Client ID :	IS-6						
Lab ID :	STR13071231-22A	TPH-E (DRO)	1,100	Z	50 µg/L	07/15/13	07/16/13
Date Sampled	07/09/13 13:49	TPH-P (GRO)	ND	V	5,000 µg/L	07/17/13	07/17/13
		Tertiary Butyl Alcohol (TBA)	30,000		500 µg/L	07/17/13	07/17/13
		Methyl tert-butyl ether (MTBE)	31		25 µg/L	07/17/13	07/17/13
		Di-isopropyl Ether (DIPE)	ND	V	50 µg/L	07/17/13	07/17/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	50 µg/L	07/17/13	07/17/13
		Benzene	ND	V	25 µg/L	07/17/13	07/17/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	50 µg/L	07/17/13	07/17/13
		Toluene	ND	V	25 µg/L	07/17/13	07/17/13
		Ethylbenzene	ND	V	25 µg/L	07/17/13	07/17/13
		m,p-Xylene	ND	V	25 µg/L	07/17/13	07/17/13
		o-Xylene	ND	V	25 µg/L	07/17/13	07/17/13
Client ID :	EW-1						
Lab ID :	STR13071231-23A	TPH-E (DRO)	380	K	50 µg/L	07/15/13	07/16/13
Date Sampled	07/09/13 10:43	TPH-P (GRO)	ND	V	2,000 µg/L	07/17/13	07/17/13
		Tertiary Butyl Alcohol (TBA)	13,000		200 µg/L	07/17/13	07/17/13
		Methyl tert-butyl ether (MTBE)	64		10 µg/L	07/17/13	07/17/13
		Di-isopropyl Ether (DIPE)	ND	V	20 µg/L	07/17/13	07/17/13
		Ethyl Tertiary Butyl Ether (ETBE)	ND	V	20 µg/L	07/17/13	07/17/13
		Benzene	11		10 µg/L	07/17/13	07/17/13
		Tertiary Amyl Methyl Ether (TAME)	ND	V	20 µg/L	07/17/13	07/17/13
		Toluene	ND	V	10 µg/L	07/17/13	07/17/13
		Ethylbenzene	ND	V	10 µg/L	07/17/13	07/17/13
		m,p-Xylene	ND	V	10 µg/L	07/17/13	07/17/13
		o-Xylene	ND	V	10 µg/L	07/17/13	07/17/13



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID : EW-2

Lab ID : STR13071231-24A

Date Sampled 07/09/13 18:42

TPH-E (DRO)	210	K	50 µg/L	07/15/13	07/16/13
TPH-P (GRO)	ND	V	5,000 µg/L	07/17/13	07/17/13
Tertiary Butyl Alcohol (TBA)	36,000		500 µg/L	07/17/13	07/17/13
Methyl tert-butyl ether (MTBE)	71		25 µg/L	07/17/13	07/17/13
Di-isopropyl Ether (DIPE)	ND	V	50 µg/L	07/17/13	07/17/13
Ethyl Tertiary Butyl Ether (ETBE)	ND	V	50 µg/L	07/17/13	07/17/13
Benzene	ND	V	25 µg/L	07/17/13	07/17/13
Tertiary Amyl Methyl Ether (TAME)	ND	V	50 µg/L	07/17/13	07/17/13
Toluene	ND	V	25 µg/L	07/17/13	07/17/13
Ethylbenzene	ND	V	25 µg/L	07/17/13	07/17/13
m,p-Xylene	ND	V	25 µg/L	07/17/13	07/17/13
o-Xylene	ND	V	25 µg/L	07/17/13	07/17/13

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

K = DRO concentration may include contributions from lighter-end hydrocarbons that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

V = Reporting Limits were increased due to high concentrations of target analytes.

Z = DRO concentration may include contributions from lighter-end and heavier-end hydrocarbons that elute in the DRO range.

ND = Not Detected

Reported in micrograms per Liter, per client request.



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*  
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.



*ps*

7/19/13

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Jul-13

## QC Summary Report

Work Order:  
13071231

### Method Blank

File ID: 1A07031389.D

Type MBLK Test Code: EPA Method SW8015B/C Ext

Batch ID: 31274

Analysis Date: 07/15/2013 14:38

Sample ID: MBLK-31274

Units: µg/L

Run ID: FID\_1\_130715A

Prep Date: 07/15/2013 12:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	50								
Surr: Nonane	142		150		95	53	145			

### Laboratory Control Spike

File ID: 1A07031390.D

Type LCS Test Code: EPA Method SW8015B/C Ext

Batch ID: 31274

Analysis Date: 07/15/2013 15:04

Sample ID: LCS-31274

Units: µg/L

Run ID: FID\_1\_130715A

Prep Date: 07/15/2013 12:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2260	50	2500		90	70	130			
Surr: Nonane	142		150		95	53	145			

### Sample Matrix Spike

File ID: 1A07031422.D

Type MS Test Code: EPA Method SW8015B/C Ext

Batch ID: 31274

Analysis Date: 07/16/2013 08:48

Sample ID: 13071231-20AMS

Units: µg/L

Run ID: FID\_1\_130715A

Prep Date: 07/15/2013 12:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	9500	50	2500	6508	120	51	151			
Surr: Nonane	142		150		95	53	145			

### Sample Matrix Spike Duplicate

File ID: 1A07031423.D

Type MSD Test Code: EPA Method SW8015B/C Ext

Batch ID: 31274

Analysis Date: 07/16/2013 09:13

Sample ID: 13071231-20AMSD

Units: µg/L

Run ID: FID\_1\_130715A

Prep Date: 07/15/2013 12:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	11600	50	2500	6508	202	51	151	9502	19.6(40)	M1
Surr: Nonane	133		150		89	53	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

Reported in micrograms per Liter, per client request.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Jul-13

## QC Summary Report

Work Order:  
13071231

### Method Blank

File ID: 2A07081466.D

Sample ID: MBLK-31276

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	50								
Surr: Nonane	135		150		90	53	145			

### Laboratory Control Spike

File ID: 2A07081466.D

Sample ID: LCS-31276

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2220	50	2500		89	70	130			
Surr: Nonane	141		150		94	53	145			

### Sample Matrix Spike

File ID: 2A07081472.D

Sample ID: 13071276-01AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2030	50	2500	0	81	51	151			
Surr: Nonane	133		150		89	53	145			

### Sample Matrix Spike Duplicate

File ID: 2A07081473.D

Sample ID: 13071276-01AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2600	50	2500	0	104	51	151	2033	24.3(40)	
Surr: Nonane	113		150		75	53	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Jul-13

## QC Summary Report

Work Order:  
13071231

### Method Blank

File ID: 13071705.D

Type **MBLK** Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0717B

Analysis Date: 07/17/2013 11:28

Sample ID: MBLK MS09W0717B

Units : µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 11:28

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
---------	--------	-----	--------	-----------	------	---------	---------	-----------	-------------	------

TPH-P (GRO)

ND

50

Surr: 1,2-Dichloroethane-d4

8.91

10

89

70

130

Surr: Toluene-d8

10.4

10

104

70

130

Surr: 4-Bromofluorobenzene

11.6

10

116

70

130

### Laboratory Control Spike

File ID: 13071703.D

Type **LCS**

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0717B

Analysis Date: 07/17/2013 10:38

Sample ID: GLCS MS09W0717B

Units : µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 10:38

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
---------	--------	-----	--------	-----------	------	---------	---------	-----------	-------------	------

TPH-P (GRO)

427

50

400

107

70

130

Surr: 1,2-Dichloroethane-d4

8.75

10

88

70

130

Surr: Toluene-d8

10.1

10

101

70

130

Surr: 4-Bromofluorobenzene

11.4

10

114

70

130

### Sample Matrix Spike

File ID: 13071720.D

Type **MS**

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0717B

Analysis Date: 07/17/2013 17:04

Sample ID: 13071231-06AGS

Units : µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 17:04

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
---------	--------	-----	--------	-----------	------	---------	---------	-----------	-------------	------

TPH-P (GRO)

2320

250

2000

0

116

54

143

Surr: 1,2-Dichloroethane-d4

43.2

50

86

70

130

Surr: Toluene-d8

50.3

50

101

70

130

Surr: 4-Bromofluorobenzene

56.9

50

114

70

130

### Sample Matrix Spike Duplicate

File ID: 13071721.D

Type **MSD**

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0717B

Analysis Date: 07/17/2013 17:27

Sample ID: 13071231-06AGSD

Units : µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 17:27

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
---------	--------	-----	--------	-----------	------	---------	---------	-----------	-------------	------

TPH-P (GRO)

2190

250

2000

0

110

54

143

2317

5.4(23)

Surr: 1,2-Dichloroethane-d4

41.9

50

84

70

130

Surr: Toluene-d8

51.1

50

102

70

130

Surr: 4-Bromofluorobenzene

56.4

50

113

70

130

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Jul-13

## QC Summary Report

Work Order:  
13071231

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 13071705.D

Batch ID: MS09W0717A

Analysis Date: 07/17/2013 11:28

Sample ID: MBLK MS09W0717A

Units: µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 11:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Tertiary Butyl Alcohol (TBA)	ND	10								
Methyl tert-butyl ether (MTBE)	ND	0.5								
DI-Isopropyl Ether (DIPE)	ND	1								
Ethyl Tertiary Butyl Ether (ETBE)	ND	1								
Benzene	ND	0.5								
Tertiary Amyl Methyl Ether (TAME)	ND	1								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	8.91		10		89	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	11.6		10		116	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 13071704.D

Batch ID: MS09W0717A

Analysis Date: 07/17/2013 11:01

Sample ID: LCS MS09W0717A

Units: µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 11:01

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.6	0.5	10		76	63	137			
Benzene	9.35	0.5	10		94	70	130			
Toluene	9.93	0.5	10		99	80	120			
Ethylbenzene	10.9	0.5	10		109	80	120			
m,p-Xylene	10.1	0.5	10		101	65	139			
o-Xylene	9.97	0.5	10		99.7	70	130			
Surr: 1,2-Dichloroethane-d4	8.85		10		89	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 13071718.D

Batch ID: MS09W0717A

Analysis Date: 07/17/2013 16:20

Sample ID: 13071231-06AMS

Units: µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 16:20

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	61.1	1.3	50	21.17	80	56	140			
Benzene	52.1	1.3	50	0	104	67	134			
Toluene	52.7	1.3	50	0	105	38	130			
Ethylbenzene	58.9	1.3	50	0	118	70	130			
m,p-Xylene	53.2	1.3	50	0	106	65	139			
o-Xylene	54.7	1.3	50	0	109	69	130			
Surr: 1,2-Dichloroethane-d4	48.9		50		98	70	130			
Surr: Toluene-d8	47.7		50		95	70	130			
Surr: 4-Bromofluorobenzene	50.4		50		101	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 13071719.D

Batch ID: MS09W0717A

Analysis Date: 07/17/2013 16:42

Sample ID: 13071231-06AMSD

Units: µg/L

Run ID: MSD\_09\_130717A

Prep Date: 07/17/2013 16:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	72.1	1.3	50	21.17	102	56	140	61.14	16.4(40)	
Benzene	57.2	1.3	50	0	114	67	134	52.11	9.2(21)	
Toluene	59.3	1.3	50	0	119	38	130	52.71	11.8(20)	
Ethylbenzene	65.2	1.3	50	0	130	70	130	58.89	10.1(20)	
m,p-Xylene	58.8	1.3	50	0	118	65	139	53.19	10.1(20)	
o-Xylene	59.3	1.3	50	0	119	69	130	54.67	8.0(20)	
Surr: 1,2-Dichloroethane-d4	47.5		50		95	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	52.2		50		104	70	130			



# *Alpha Analytical, Inc.*

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:**  
*19-Jul-13*

## QC Summary Report

**Work Order:**  
13071231

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Billing Information :

# CHAIN-OF-CUSTODY RECORD

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778

TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

WorkOrder : STR13071231

Report Due By : 5:00 PM On : 19-Jul-13

Client:  
Stratus Environmental  
3330 Cameron Park Drive  
Suite 550  
Cameron Park, CA 95682-8861

Report Attention	Phone Number	E-Mail Address
Kasey Jones	(530) 676-6004 x	kaseyjones@stratusinc.net

EDD Required : Yes

Sampled by : Carl Schulze

PO :  
Client's COC # : 60996, 60994      Job : Eagle Gas

Cooler Temp	Samples Received	Date Printed
2 °C	12-Jul-13	12-Jul-13

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
				Alpha	Sub	TAT	TPH/E_W	TPH/P_W	VOC_W							
STR13071231-01A	MW-1	AQ	07/10/13 13:38	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-02A	MW-1D	AQ	07/10/13 13:52	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-03A	MW-2	AQ	07/10/13 14:03	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-04A	MW-3	AQ	07/09/13 15:01	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-05A	MW-4	AQ	07/09/13 10:52	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-06A	MW-4D	AQ	07/09/13 11:03	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-07A	MW-5	AQ	07/09/13 12:14	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-08A	MW-5D	AQ	07/09/13 12:22	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-09A	MW-6	AQ	07/09/13 18:58	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-10A	MW-7	AQ	07/09/13 08:47	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							

Comments: Security seals intact. Frozen ice. :

Signature	Print Name	Company	Date/Time
	K Murray	Alpha Analytical, Inc.	7/12/13 1520

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)      Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information :**

# CHAIN-OF-CUSTODY RECORD

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

**WorkOrder : STR13071231**  
**Report Due By : 5:00 PM On : 19-Jul-13**

**Client:**  
 Stratus Environmental  
 3330 Cameron Park Drive  
 Suite 550  
 Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6004 x	kaseyjones@stratusinc.net

EDD Required : Yes

Sampled by : Carl Schulze

PO :  
 Client's COC # : 60996, 60994      Job : Eagle Gas

Cooler Temp	Samples Received	Date Printed
2 °C	12-Jul-13	12-Jul-13

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks			
							TPH/E_W	TPH/P_W	VOC_W							
STR13071231-11A	MW-7D	AQ	07/09/13 10:27	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-12A	MW-8	AQ	07/10/13 12:54	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-13A	MW-9D	AQ	07/10/13 12:36	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-14A	MW-10	AQ	07/09/13 20:49	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-15A	MW-10D	AQ	07/09/13 20:55	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-16A	MW-11D	AQ	07/09/13 15:19	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-17A	IS-1	AQ	07/09/13 19:11	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-18A	IS-2	AQ	07/09/13 15:32	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-19A	IS-3	AQ	07/10/13 13:08	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							
STR13071231-20A	IS-4	AQ	07/09/13 15:10	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C							

Comments: Security seals intact. Frozen ice. :

	Signature	Print Name	Company	Date/Time
Logged in by:	<i>K Murray</i>	K Murray	Alpha Analytical, Inc.	7/12/13 1500

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)      Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

**WorkOrder : STR13071231**  
**Report Due By : 5:00 PM On : 19-Jul-13**

**Client:**  
 Stratus Environmental  
 3330 Cameron Park Drive  
 Suite 550  
 Cameron Park, CA 95682-8861

Report Attention	Phone Number	EEmail Address
Kasey Jones	(530) 676-6004 x	kaseyjones@stratusinc.net

EDD Required : Yes

Sampled by : Carl Schulze



PO :  
 Client's COC # : 60996, 60994      Job : Eagle Gas

Cooler Temp	Samples Received	Date Printed
2 °C	12-Jul-13	12-Jul-13

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks		
				Alpha	Sub	TAT	TPH/E_W	TPHP_W	VOC_W						
STR13071231-21A	IS-5	AQ	07/10/13 13:26	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C						
STR13071231-22A	IS-6	AQ	07/09/13 13:49	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C						
STR13071231-23A	EW-1	AQ	07/09/13 10:43	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C						
STR13071231-24A	EW-2	AQ	07/09/13 18:42	6	0	5	TPH/E_C	GAS-C	BTEX/OXY_C						

Comments: Security seals intact. Frozen ice. :

Signature	Print Name	Company	Date/Time
		Alpha Analytical, Inc.	7/12/13 1500

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)      Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:**

Company Name Stratus Environmental  
 Attn: \_\_\_\_\_  
 Address 3350 Cameron Park Dr. Suite 550  
 City, State, Zip Cameron Park, CA 95682  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**Samples Collected From Which State?** **60996**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ **DOD Site** \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_ Page # 1 of 2

Consultant / Client Name		Job #		Job Name		Analyses Required							Data Validation Level: III or IV			
Eagle Gas				Report Attention / Project Manager		DRO, GRO 8015B	BTEX	5 oxy's	8260B	8260B						
Address <u>4301 San Leandro Ave</u>		Name: <u>Kasey Jones</u>		Email: _____											EDD / EDF? <input checked="" type="checkbox"/> NO _____	
City, State, Zip <u>Oakland, CA</u>		Phone: _____ Mobile: _____		Global ID # <u>T0600143649</u>												
Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number <small>Office (Use Only)</small>	Sample Description	TAT	Field Filtered	# Containers**							REMARKS	
1338	07/10	AQ	STR13071231-01	MW-1	MW-1	std	n	6V	X	X	X					
1352	07/10			FOR 02	MW-1D											
1403	07/10			03	MW-2											
1501	07/09			04	MW-3											
1052	07/09			LAB 05	MW-4											
1103	07/09			06	MW-4D											
1214	07/09			07	MW-5											
1222	07/09			USE 08	MW-5D											
1858	07/09			09	MW-6											
0847	07/09			10	MW-7											
1027	07/09			ONLY 11	MW-7D											
1254	07/10			12	MW-8											
1236	07/10			13	MW-9D											

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: E. Schulze

Relinquished by: (Signature/Affiliation) <u>[Signature]</u> <u>07/10/13</u>	Received by: (Signature/Affiliation) <u>E. Frudano</u>	Date: <u>07/10/13</u>	Time: <u>1837</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: <u>7/12/13</u>	Time: <u>1440</u>
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing Information:**

Company Name Stratus Environmental  
 Attn: \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?** **60994**  
 AZ \_\_\_\_\_ CA  NV \_\_\_\_\_ WA \_\_\_\_\_ **DOD Site** \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ **OTHER** \_\_\_\_\_ Page # 2 of 2

Consultant / Client Name		Job #		Job Name		Analyses Required							Data Validation Level: III or IV		
Address				Report Attention / Project Manager								EDD / EDF? YES <input checked="" type="checkbox"/> NO _____			
City, State, Zip				Name: _____								Global ID # _____			
P.O. #				Email: _____								REMARKS			
Phone: _____				Mobile: _____											
Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number <small>Office (Use Only)</small>	Sample Description	TAT	Field Filtered	# Containers**	PRO, GPO	GTEX	5 anlys					
2049	07/09	AQ	STR13071231-14	MW-10	std	n	6V	x	x	x					
2055	07/09		FOR LAB USE ONLY	15	MW-10D										
1519	07/09			16	MW-11D										
1911	07/09			17	15-1										
1532	07/09			18	15-2										
1308	07/10			19	15-3										
1510	07/09			20	15-4										
1526	07/10			21	15-5										
1549	07/09			22	15-6										
1043	07/09			23	EW-1										
1842	07/09			24	EW-2										

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: Carl Schulze

Relinquished by: (Signature/Affiliation) <u>[Signature]</u> 07/10/13	Received by: (Signature/Affiliation) <u>E. Prignano</u>	Date: 07/10/11	Time: 1837
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) <u>K. Murray / AQ</u>	Date: 7/12/13	Time: 1440
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\*: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**APPENDIX D**

**GEOTRACKER ELECTRONIC SUBMITTAL  
CONFIRMATIONS**

---

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

UPLOADING A GEO\_WELL FILE

**SUCCESS**

Processing is complete. No errors were found!  
Your file has been successfully submitted!

<b><u>Submittal Type:</u></b>	GEO_WELL
<b><u>Report Title:</u></b>	3Q13 Geowell 7-9-13
<b><u>Facility Global ID:</u></b>	T0600143649
<b><u>Facility Name:</u></b>	EAGLE GAS
<b><u>File Name:</u></b>	GEO_WELL.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	50.192.223.97
<b><u>Submittal Date/Time:</u></b>	8/23/2013 1:43:23 PM
<b><u>Confirmation Number:</u></b>	<b>5138902783</b>

Copyright © 2013 State of California

STATE WATER RESOURCES CONTROL BOARD  
**GEOTRACKER ESI**

## UPLOADING A EDF FILE

**SUCCESS**

Processing is complete. No errors were found!  
Your file has been successfully submitted!

<b><u>Submittal Type:</u></b>	EDF
<b><u>Report Title:</u></b>	3Q13 Analytical 7-9-13
<b><u>Report Type:</u></b>	Monitoring Report - Annually
<b><u>Facility Global ID:</u></b>	T0600143649
<b><u>Facility Name:</u></b>	EAGLE GAS
<b><u>File Name:</u></b>	13071231_EDF.zip
<b><u>Organization Name:</u></b>	Stratus Environmental, Inc.
<b><u>Username:</u></b>	STRATUS NOCAL
<b><u>IP Address:</u></b>	50.192.223.97
<b><u>Submittal Date/Time:</u></b>	8/27/2013 1:32:27 PM
<b><u>Confirmation Number:</u></b>	<b>6995339572</b>

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

Copyright © 2013 State of California