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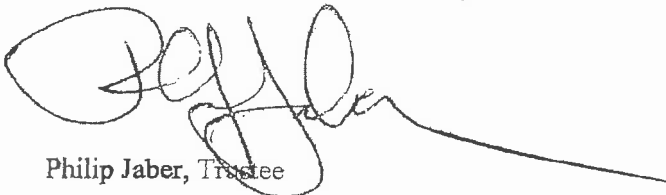
Mr. Mark Detterman
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Former Olympic Service Station
1436 Grant Avenue
San Lorenzo, California
ACEHD Case No. RO0000373, GeoTacker No. T0600102256

Dear Mr. Detterman:

I declare, under penalty of perjury, that the information and or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,
George and Frida Jaber 1989 Family Trust



Philip Jaber, Trustee



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

October 2, 2014
Project No. 2115-1436-01

Mr. Mark Detterman
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Remediation Status Report and Results of Limited Groundwater Sampling Event
Third Quarter 2014**
Former Olympic Station
1436 Grant Avenue
San Lorenzo, California
ACEHD Case No. RO0000373, GeoTracker No. T0600102256

Dear Mr. Detterman:

On behalf of Mr. Philip Jaber and the George and Frida Jaber 1989 Family Trust, Stratus Environmental, Inc. (Stratus) is submitting the attached report, for the Former Olympic Station located at 1436 Grant Avenue in San Lorenzo, California (the site, see Figures 1 and 2). If you have any questions or comments concerning this report, please contact Gowri Kowtha at gkowtha@stratusinc.net or (530) 676-6001 or Scott Bittinger at (530) 676-2062.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Deborah Barr, P.E.
Project Engineer

Scott G. Bittinger, P.G.
Project Geologist

Attachment: Remediation Status Report and Results of Limited Groundwater Sampling Event,
Third Quarter 2014

cc: Mr. Philip Jaber

**FORMER OLYMPIC STATION
REMEDATION STATUS REPORT AND RESULTS OF LIMITED GROUNDWATER
SAMPLING EVENT, THIRD QUARTER 2014**

Facility Address: 1436 Grant Avenue, San Lorenzo, CA
 Consulting Co. / Contact Person: Stratus Environmental, Inc. / Gowri Kowtha, P.E.
 Consultant Project No: 2115-1436-01
 Primary Agency/Regulatory ID No: Mark Detterman, Alameda County Environmental Health Department
(ACEHD) / Case No. RO0000373

WORK PERFORMED THIS PERIOD (Third Quarter 2014):

1. On July 31, 2014, Stratus submitted a document titled *Well Installation and Site Assessment Report*.
2. Remediation at the site using dual phase extraction (DPE) technology was initiated on July 21, 2014.
3. Stratus performed seven operation and maintenance (O&M) visits for the DPE system on July 21, 24, and 29, August 4, 18, and September 8 and 19, 2014.
4. In a letter dated September 17, 2014, ACEHD requested that wells MW-5A and MW-6A, which were installed and initially sampled during the second quarter 2014, be sampled on a quarterly basis. Stratus subsequently collected purge groundwater samples from these wells on September 19, 2014, and submitted these samples for analytical testing.

WORK PROPOSED FOR NEXT PERIOD (Fourth Quarter 2014):

1. DPE remediation will continue for at least two months to maximize the system efficiency during the months with seasonal low groundwater table. The exact duration of the remediation event has not been determined, but will be evaluated on a periodic basis. A minimum of two site visits per month will be performed in order to verify proper operation of the equipment and to collect samples as needed to verify permit compliance and assess effectiveness of the remedial efforts.
2. A groundwater monitoring and sampling event will be performed during the fourth quarter 2014; tentatively this work is scheduled to be completed in December 2014.

Current Phase of Project:	<u>CAP/REM (Start-up)</u>
Frequency of Groundwater Monitoring:	<u>All Wells = Semi-Annual (2nd & 4th); Wells MW-5A and MW-6A also gauged during the 1st and 3rd quarter to assess purge volumes for well sampling</u>
Frequency of Groundwater Monitoring and Sampling:	<u>All Wells (except MW-5A and MW-6A) = Semi-Annual (2nd & 4th); Wells MW-5A and MW-6A sampled quarterly per 9/17/14 directive from ACEHD</u>
Groundwater Sampling Date:	<u>September 19, 2014</u>

Is Free Product (FP) Present on Site:	No
Approximate Depth to Groundwater:	8.61 to 8.80 feet below top of well casing in wells MW-5A and MW-6A, respectively, under onsite DPE conditions
Groundwater Flow Direction:	Not evaluated this quarter
Groundwater Gradient:	Not evaluated this quarter

DPE SYSTEM QUARTERLY OPERATION AND PERFORMANCE:

Equipment Inventory:	350 cubic feet per minute (cfm) thermal oxidizer, and two 2,000 pound liquid-phase granular activated carbon vessels, connected in-series.
Extraction Wells:	EX-1 through EX-7
Operating Mode:	Thermal
BAAQMD Permit Nos.:	Plant No. 21776
Influent Air: GRO End of Period (lab):	410 milligrams per cubic meter (mg/m ³) (9/8/14)
Influent Air: Benzene End of Period (lab):	0.45 mg/m ³ (9/8/14)
Influent Air: MTBE End of Period (lab):	0.80 mg/m ³ (9/8/14)
Flow Rate End of Period:	132.5 acfm (9/19/14)
Applied Vacuum End of Period:	12 inches of water column ("WC) (9/19/14)
Soil vapor: GRO Removed this Period:	825.3 lbs (between 7/21/14 and 9/8/14)
Influent Groundwater: GRO End of Period (lab):	<50 µg/L (9/8/14)
Influent Groundwater: Benzene End of Period (lab):	0.89 µg/L (9/8/14)
Influent Groundwater: MTBE End of Period (lab):	12 µg/L (9/8/14)
Average Groundwater Extraction Rate :	5.7 gpm (between 7/21/14 and 9/8/14)
Groundwater: GRO Removed this Period:	0.4 lbs (between 7/21/14 and 9/8/14)
Groundwater Removed this Period:	244,930 gallons (between 7/21/13 and 9/8/14)
Operating Hours This Period:	1,030.9 hours (between 7/21/14 and 9/19/14)
Number of Shutdowns:	2-manual; 1-automatic

GROUNDWATER MONITORING AND SAMPLING EVENT:

Groundwater samples collected from wells MW-5A and MW-6A were analyzed at a state-certified analytical laboratory for gasoline range organics (GRO) by EPA Method SW8015B/SW8260B and for benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method SW8260B. Well construction details are summarized in Table 1, and historical groundwater elevation and analytical data are summarized in Table 2. Field data sheets documenting measurements and observations obtained by Stratus personnel, a description of sampling and analyses procedures utilized, and laboratory analytical reports with chain of custody records are included in Appendix A, B, and C, respectively. Depth to groundwater measurements and sample analytical results have been uploaded to the State of California's GeoTracker database and documentation of this data uploading is provided in Appendix D.

In general, concentrations of petroleum hydrocarbons and fuel oxygenates detected in the MW-5A and MW-6A well samples were similar to the initial sampling of these wells performed in June 2014 (see page

4 of Table 2). GRO and benzene were detected at concentrations of 28,000 micrograms per liter ($\mu\text{g/L}$) and 3,400 $\mu\text{g/L}$, respectively, in the MW-6A sample, and 18,000 $\mu\text{g/L}$ and 1,900 $\mu\text{g/L}$, respectively, in the MW-5A sample. MTBE was also detected in the MW-6A sample (45 $\mu\text{g/L}$).

REMEDIAL ACTION SUMMARY

Stratus is performing DPE at the site using a portable CBA Equipment, LLC 350 cubic feet per minute (cfm) thermal oxidizer permitted to operate by the Bay Area Air Quality Management District (BAAQMD). Soil vapors and groundwater are extracted from the subsurface and then conveyed to the remediation system through above ground piping protected by traffic rated speed bumps. Wells EX-1 through EX-7 are manifold to the remediation system, however, groundwater and soil vapors are being extracted from wells EX-2 through EX-7 only. In-well drop tubes (stingers) are being used for extraction of soil vapors and groundwater at each well. Soil vapors are abated on-site through the thermal oxidizer and discharged to the atmosphere. Groundwater is extracted from the subsurface and treated onsite using two 1,000-pound GAC vessels, and then discharged to the sanitary sewer under approved discharge permit (Oro Loma Sanitary Sewer District). The approximate locations of the remedial equipment, above ground conveyance piping, and sewer discharge point are depicted on Figure 2. A process flow diagram of the remediation equipment is presented in Figure 3.

During the third quarter 2014, Stratus technicians conducted seven O&M site visits between July 21 and September 19, 2014. Field data sheets documenting measurements and observations collected during each visit are included in Appendix A. Stratus personnel worked to optimize system performance throughout the remediation event; in particular, adjustment of drop tube (stinger) depths appears to have improved operational uptime during the remediation event beginning in mid-August 2014. Magnahelic gauges were placed within wells MW-1 through MW-4, MW-5A, and MW-6A to measure induced vacuum, and a hand-operated electric water-level sounder was used to measure depth to groundwater in each of these six wells. The remediation system was equipped to measure the extraction rates (soil vapor and groundwater flow rates). A flow totalizer was installed to record the volume of treated water extracted and disposed to the sanitary sewer. Influent and effluent soil vapor concentrations were also monitored using a photo-ionization detector (PID).

The remedial system was started up for initial operation on July 21, 2014. During the initial part of the remedial event, the remedial equipment was only operated briefly, in order to allow for collection of samples verifying proper abatement of dissolved phase contaminants. After verifying proper contaminant abatement and receiving approval from Oro Loma Sanitary Sewer District, Stratus attempted to operate the remedial equipment continuously. Until August 18, 2014, the remedial equipment operated intermittently, as the DPE system was manually shut down due to required discharge requirements and/or was observed non-operational upon arrival for an O&M visit. However, since August 18, 2014, the remediation system has operated continuously. Table 3 presents an operational uptime and flow summary for the remediation equipment.

Soil vapor samples were collected from the system in laboratory-supplied 1-liter Tedlar bags, placed in protective containers, and stored at ambient air temperature. Groundwater samples were collected in laboratory supplied glass vials and stored in ice-chilled coolers. Strict chain of custody procedures were followed from the time samples were collected until the time samples were relinquished to the state-certified analytical laboratory. Soil vapor samples were analyzed by Kiff Analytical, LLC (ELAP No. 08263CA), and groundwater samples were analyzed by Alpha Analytical, Inc (ELAP No. 2019). The soil vapor samples were analyzed for GRO, BTEX, and MTBE using USEPA Method 8260B. Groundwater samples were analyzed for GRO using USEPA Method SW8015B/SW8260B and for BTEX and MTBE using USEPA Method SW8260B. Select groundwater samples were also analyzed, as required by the Oro Loma Sanitary Sewer District, for select metals using USEPA Method 200.8, for mercury using USEPA Method 245.1, for cyanide using USEPA Method SM4500-CNE, and for phenols using USEPA Method SW8270C-SIM. Analytical data for these samples is included in Appendix C and documentation of GeoTracker data uploading is provided in Appendix D.

Tables 4 through 9 provide a summary of data available as a result of use of the DPE system. Based on hour meter readings recorded by the remediation system, the DPE equipment operated for approximately

1,030.9 hours between July 21 and September 19, 2014. During this time, influent air flow rates ranged between approximately 98 and 132 cubic feet per minute (cfm) under an applied vacuum ranging from approximately 12 to 19 inches of mercury ("Hg). Induced vacuum was noted in wells MW-2, MW-3, MW-4, MW-5A, and MW-6A (see Table 4). Before initiating DPE, static groundwater levels were measured in wells MW-1, MW-2, MW-3, MW-4, MW-5A, and MW-6A and during the DPE operational period; groundwater levels generally declined approximately 1 to 1.5 feet in each of these wells (see Table 4). Given this observation, we believe that DPE is resulting in localized drawdown of the water table near the extraction wells. Both induced vacuum and groundwater drawdown were observed as highly variable with the observed readings from the monitoring wells. Induced vacuum was noted in monitoring wells as much as 54-feet from the nearest extraction well. Given the available data, we believe that a radius of influence (ROI) of approximately 25 feet is reasonable, however, induced vacuum could be observed as much as 54-feet distant from an extraction point.

Influent air concentrations of fuel contaminants in soil vapor declined appreciably since startup of DPE. Initially, GRO, benzene, and MTBE were detected at concentrations of 5,900 milligrams per cubic meter (mg/m^3), $1.0 \text{ mg}/\text{m}^3$, and $1.8 \text{ mg}/\text{m}^3$, respectively (on July 21, 2014, following short duration start-up). By September 8, 2014, influent concentrations of GRO, benzene, and MTBE had declined to $410 \text{ mg}/\text{m}^3$, $0.45 \text{ mg}/\text{m}^3$, and $0.80 \text{ mg}/\text{m}^3$, respectively (after operating continuously for nearly one month). No petroleum hydrocarbons or MTBE were detected in the effluent air samples, and thus the remediation system is operating in compliance with the BAAQMD permit for the equipment. Using the available analytical data and information collected during O&M site visits (air flow rates, hour meter readings, etc.), Stratus estimates that approximately 825 pounds of GRO were removed from the subsurface in the vapor phase between July 21 and September 8, 2014 (see Table 6).

Between July 21 and September 8, 2014, approximately 244,930 gallons of groundwater were extracted from the subsurface, treated onsite, and discharged to the sanitary sewer system. Based on flow totalizer measurements, groundwater is being extracted at a rate of approximately 5.7 gallons per minute (gpm; see Table 9). Influent concentrations of fuel contaminants in groundwater are relatively low, and therefore, contaminant mass removal in the dissolved phase is low (see Tables 7 and 9). No petroleum hydrocarbons or MTBE were detected in effluent groundwater, and the GAC groundwater treatment system appears to be operating in compliance with Oro Loma Sanitary Sewer District discharge requirements.

DISCUSSION:

Stratus will continue to operate the DPE system during the fourth quarter 2014. The exact length of time that remediation will be performed will be evaluated on an ongoing basis. Based on the initial results of the MW-5A and MW-6A sampling, DPE remediation may need to extend into the first quarter 2015 in order for groundwater contaminant concentration levels to be reduced to levels that will allow for future closure of the site's environmental case under the criteria established by the State Water Resources Control Board's 'Low Threat Closure Policy' (LTCP). It is unknown as to the duration of time that will be necessary for DPE to sufficiently reduce shallow soil gas concentrations to levels that will allow for site closure under the LTCP.

ATTACHMENTS:

- Table 1 Well Construction Details
- Table 2 Groundwater Elevation and Analytical Summary
- Table 3 Operational Uptime and Flow Summary – DPE Remediation Event
- Table 4 Induced Vacuum and Depth to Water Measurement Summary – DPE Remediation Event
- Table 5 SVE Component – Analytical Results and Flow Rates – DPE Remediation Event
- Table 6 SVE Component – Extraction and Emission Rates – DPE Remediation Event
- Table 7 Groundwater Extraction Component – Groundwater Analytical Data Summary -

- Table 8 DPE Remediation Event (Petroleum Hydrocarbons and MTBE)
Groundwater Extraction Component – Groundwater Analytical Data Summary -
DPE Remediation Event (Non-Fuel Contaminant Analyses Required for Sewer
Discharge Permit)
- Table 9 Groundwater Extraction Component – Operational Performance and Mass
Removal Summary - DPE Remediation Event
- Figure 1 Site Location Map
- Figure 2 Site Plan
- Figure 3 Process Flow Diagram
- 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
WELL CONSTRUCTION DETAIL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Boring/Well I.D.	Date	Boring Depth (feet)	Boring Diameter (inches)	Well Diameter (inches)	Screen Interval (feet bgs)	Slot Size (inches)	Drilling Method	Consultant
<i>Groundwater Monitoring Wells</i>								
MW-1	09/24/99	26.5	8	2	5 - 26.5	0.020	HSA	Aqua Science Engineers
MW-2	09/24/99	20	8	2	5-20	0.020	HSA	Aqua Science Engineers
MW-3	09/24/99	21.5	8	2	5-21	0.020	HSA	Aqua Science Engineers
MW-4	02/09/10	10	10	4	5-10	0.020	Air Knife	Conestoga-Rovers & Associates
MW-5A	05/28/14	10	8	2	5-10	0.020	HSA	Stratus Environmental
MW-5B	05/28/14	20	8	2	15-20	0.020	HSA	Stratus Environmental
MW-6A	05/28/14	10	8	2	5-10	0.020	HSA	Stratus Environmental
MW-6B	05/28/14	20	8	2	15-20	0.020	HSA	Stratus Environmental
<i>Extraction Wells</i>								
EX-1	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-2	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-3	05/19/11	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-4	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-5	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-6	02/21/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
EX-7	02/20/14	20	10	4	5-20	0.020	HSA	Stratus Environmental
<i>Injection Wells</i>								
IW-1	05/20/11	11.5	8	0.75	9.5-11.5	microporous	HSA	Stratus Environmental
IW-2	05/20/11	16	8	0.75	14-16	microporous	HSA	Stratus Environmental
Notes: HSA = Hollow Stem Auger Data regarding the construction of wells MW-1 through MW-4 obtained from groundwater monitoring reports prepared by Conestoga-Rovers & Associates								

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	
MW-1	10/06/99	8.35	15.00	6.65	--	--	84**	3,900*	<25	<25	<25	<25	3,500	--	--	--	--	--	--	--	
	01/13/00	7.90		7.10	--	--	<50	<1,300	18	<13	<13	<13	1,700	--	--	--	--	--	--	--	
	04/12/00	7.08		7.92	--	--	56***	<1,000	66	<10	<10	<10	1,600	--	--	--	--	--	--	--	
	07/19/00	7.66		7.34	--	--	52**	<1,000	<10	<10	<10	<10	1,200	--	--	--	--	--	--	--	
	10/25/00	7.91		7.09	--	--	76***	4,100*	120	<25	<25	<25	6,100	--	--	--	--	--	--	--	
	02/16/07	6.32		8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.88		9.12	--	<250	<50	<50	<1.2	<1.2	<1.2	<1.2	78	<1.2	<1.2	<1.2	<12	<120	<1.2	<1.2	
	05/01/07	7.24	15.71	8.47	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	250	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0	
	08/01/07	7.77		7.94	--	--	<50	<50	<25	<25	<25	<25	520	<25	<25	<25	<250	<2,500	<25	<25	
	11/01/07	7.71		8.00	--	--	<50	<50	<12	<12	<12	<12	460	<12	<12	<12	<120	<1,200	<12	<12	
	02/01/08	5.71		10.00	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	110	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5	
	05/02/08	7.52		8.19	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	240	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	
	08/01/08	8.02		7.69	--	--	<50	<50	<10	<10	<10	<10	500	<10	<10	<10	<40	<1,000	<10	<10	
	11/04/08	7.28		8.43	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	260	<5.0	<5.0	<5.0	26	<500	<5.0	<5.0	
	08/11/09	8.08		7.63	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	270	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0	
	02/03/10	6.14		9.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--	
	05/18/10	7.09		8.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/05/10	7.65		8.06	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	350	--	--	--	--	--	--	--	
	02/04/11	7.20		8.51	--	--	--	<50	0.90	<0.5	<0.5	<0.5	62	--	--	--	--	--	--	--	
	06/03/11	7.28	18.60	11.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	08/02/11	7.47		11.13	--	--	--	120	<0.50	<0.50	<0.50	<0.50	160	--	--	--	--	--	--	--	
	09/29/11	7.83		10.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/12/11	7.03		11.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/09/11	7.55		11.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/11	7.81		10.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	03/15/12	6.45		12.15	--	--	--	55	<0.50	<0.50	<0.50	<0.50	71	--	--	--	--	--	--	--	
	08/28/12	7.81		10.79	--	--	--	120	<0.50	<0.50	<0.50	<0.50	240	--	--	--	--	--	--	--	
	02/27/13	7.32		11.28	--	--	--	61	<0.50	<0.50	<0.50	<0.50	69	--	--	--	--	--	--	--	
	08/26/13	8.05		10.55	--	--	--	470	<0.50	<0.50	<0.50	<0.50	590	--	--	--	--	--	--	--	
	06/19/14	7.86		10.74	--	--	--	190	<0.50	<0.50	<0.50	<0.50	230	--	--	--	--	--	--	--	

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Groundwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-2	10/06/99	7.87	14.46	6.59	<1,000	500[3]	<50	70*	<0.5	<0.5	<0.5	<0.5	11	--	--	--	--	--	--	--
	01/13/00	7.46		7.00	<1,000	500[3]	<50	<50	<0.5	<0.5	<0.5	<0.5	6.2	--	--	--	--	--	--	--
	04/12/00	6.67		7.79	1,100	<500	<50	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--
	07/19/00	7.23		7.23	1,300	<500	<50	<1,000	<10	<10	<10	<10	990	--	--	--	--	--	--	--
	10/25/00	7.52		6.94	--	<500	<50	370	<2.5	<2.5	<2.5	<2.5	690	--	--	--	--	--	--	--
	02/16/07	5.89		8.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.45		9.01	--	<250	<50	<50	<0.5	<0.5	<0.5	<0.5	9.8	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5
	05/01/07	6.83	15.17	8.34	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	120	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	08/01/07	7.35		7.82	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	130	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	11/01/07	7.27		7.90	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	19	<0.5	<0.5	<0.5	<5.0	<50	<0.5	<0.5
	02/01/08	5.25		9.92	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5
	05/02/08	7.12		8.05	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	83	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	08/01/08	7.59		7.58	--	--	<50	<50	<1.0	<1.0	<1.0	<1.0	52	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0
	11/04/08	6.84		8.33	--	--	80	<50	<0.5	<0.5	<0.5	<0.5	5.9	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5
	08/11/09	7.65		7.52	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	9.4	<0.5	<0.5	<0.5	<2.0	<50	<0.5	<0.5
	02/03/10	5.75		9.42	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	0.86	--	--	--	--	--	--	--
	05/18/10	6.67		8.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.25		7.92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	57	--	--	--	--	--	--	--
	02/04/11	6.79		8.38	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.4	--	--	--	--	--	--	--
	06/03/11	6.82	18.00	11.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/02/11	7.06		10.94	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	46	--	--	--	--	--	--	--
	09/29/11	7.39		10.61	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	41	<1.0	<1.0	<1.0	<10	--	--	<1.0
	10/12/11	6.62		11.38	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	37	<1.0	<1.0	<1.0	<10	--	--	<1.0
	11/09/11	7.11		10.89	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	33	<1.0	<1.0	<1.0	<10	--	--	<1.0
	12/12/11	7.35		10.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/12	5.98		12.02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.3	--	--	--	--	--	--	--
	08/28/12	7.39		10.61	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	35	--	--	--	--	--	--	--
	02/27/13	6.91		11.09	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	12	--	--	--	--	--	--	--
	08/26/13	7.61		10.39	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	6.2	--	--	--	--	--	--	--
	06/19/14	7.73		10.27	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	13	--	--	--	--	--	--	--

TABLE 2
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-3	10/06/99	7.90	14.41	6.51	--	--	300**	3,900	900	89	160	560	790	--	--	--	--	--	--	--
	01/13/00	7.50		6.91	--	--	210**	740	110	4.8	35	18	290	--	--	--	--	--	--	--
	04/12/00	6.61		7.80	--	--	640***	2,200	650	9.7	180	24	140	--	--	--	--	--	--	--
	07/19/00	7.24		7.17	--	--	270**	2,700*	420	<2.5	160	<2.5	99	--	--	--	--	--	--	--
	10/25/00	7.52		6.89	--	--	150	710*	180	<2.5	24	<2.5	71	--	--	--	--	--	--	--
	02/16/07	5.90		8.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.44		8.97	--	<250	<50	82	20	<1.7	<1.7	<1.7	100	<1.7	<1.7	<1.7	<17	<170	<1.7	<1.7
	05/01/07	6.87	15.13	8.26	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	88	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	08/01/07	7.40		7.73	--	--	<50	130	12	<2.5	<2.5	<2.5	98	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	11/01/07	7.35		7.78	--	--	<50	77	<2.5	<2.5	<2.5	<2.5	68	<2.5	<2.5	<2.5	<25	<250	<2.5	<2.5
	02/01/08	5.28		9.85	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	97	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.15		7.98	--	--	<50	68	2.3	<1.7	<1.7	<1.7	86	<1.7	<1.7	<1.7	7.2	<170	<1.7	<1.7
	08/01/08	7.66		7.47	--	--	<50	85	3.5	<1.0	<1.0	<1.0	66	<1.0	<1.0	<1.0	7.2	<100	<1.0	<1.0
	11/04/08	6.96		8.17	--	--	<50	<50	<1.0	<1.0	<1.0	<1.0	40	<1.0	<1.0	<1.0	<4.0	<100	<1.0	<1.0
	08/11/09	7.72		7.41	--	--	<50	110	33	<0.50	<0.50	<0.50	28	<0.50	<0.50	<0.50	<2.0	<50	<0.50	<0.50
	02/03/10	5.72		9.41	--	--	--	<50	0.55	<0.50	<0.50	<0.50	25	--	--	--	--	--	--	--
	05/18/10	6.73		8.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.31		7.82	--	--	--	450	110	2.2	0.76	0.64	32	--	--	--	--	--	--	--
	02/04/11	6.80		8.33	--	--	--	220[1]	64	1.6	<0.5	<0.5	36	--	--	--	--	--	--	--
	06/03/11	6.87	17.95	11.08	--	--	--	200	26	<0.50	<0.50	<0.50	34	--	--	--	--	--	--	--
	08/02/11	7.07		10.88	--	--	--	<50	2.5	<0.50	<0.50	<0.50	36	--	--	--	--	--	--	--
	09/29/11	7.43		10.52	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	28	<1.0	<1.0	<1.0	<10	--	--	<1.0
	10/12/11	6.67		11.28	--	--	--	<50	0.91	<0.50	<0.50	<0.50	32	<1.0	<1.0	<1.0	<10	--	--	<1.0
	11/09/11	7.16		10.79	--	--	--	<50	1.8	<0.50	<0.50	<0.50	31	<1.0	<1.0	<1.0	<10	--	--	<1.0
	12/12/11	7.42		10.53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/12	6.21		11.74	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	24	--	--	--	--	--	--	--
	08/28/12	7.44		10.51	--	--	--	<50	6.5	<0.50	<0.50	<0.50	24	--	--	--	--	--	--	--
	02/27/13	6.90		11.05	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	18	--	--	--	--	--	--	--
	08/26/13	7.72		10.23	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	34	--	--	--	--	--	--	--
	06/19/14	7.50		10.45	--	--	--	<50	2.3	<0.50	<0.50	<0.50	16	--	--	--	--	--	--	--

TABLE 2
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Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-4	05/18/10	6.68	15.15	8.47	--	--	--	13,000	620	36	170	12	1,200	--	--	--	--	--	--	--
	08/05/10	7.25		7.90	--	--	--	9,200	780	13	230	4.3	1,800	--	--	--	--	--	--	--
	02/04/11	6.71		8.44	--	--	--	4,800[1]	350	7.1	23	<2.5	440	--	--	--	--	--	--	--
	06/03/11	6.78	17.99	11.21	--	--	--	4,700	350	2.6	19	<2.5[2]	670	--	--	--	--	--	--	--
	08/02/11	7.01		10.98	--	--	--	4,700	290	<2.5[2]	12	<2.5[2]	970	--	--	--	--	--	--	--
	09/29/11	7.37		10.62	--	--	--	8,700	590	<5.0[2]	34	<5.0[2]	1,500	<10[2]	28	<10[2]	<100[2]	--	--	<10[2]
	10/12/11	6.61		11.38	--	--	--	1,500	160	<1.0[2]	1.8	<1.0[2]	1,300	<2.0[2]	8.6	<2.0[2]	42	--	--	<2.0[2]
	11/09/11	7.18		10.81	--	--	--	2,800	190	1.4	9.6	1.3	720	<2.0[2]	3.6	<2.0[2]	270	--	--	<2.0[2]
	12/12/11	7.36		10.63	--	--	--	3,800	300	2.4	11	2.5	1,200	--	--	--	--	--	--	--
	03/15/12	6.15		11.84	--	--	--	8,300	530	<5.0[2]	120	72	3,700	--	--	--	--	--	--	--
	08/28/12	7.40		10.59	--	--	--	2,400	250	<4.0[2]	14	<4.0[2]	1,400	--	--	--	--	--	--	--
	02/27/13	6.85		11.14	--	--	--	2,400	160	2.5	8.2	<2.0[2]	1,400	--	--	--	--	--	--	--
	08/26/13	7.69		10.30	--	--	--	4,900	220	<2.5[2]	5.7	<2.5[2]	2,400	--	--	--	--	--	--	--
	06/19/14	7.48		10.51	--	--	--	6,000	260	<4.0[2]	8.8	<4.0[2]	1,600	--	--	--	--	--	--	--
MW-5A	06/19/14	7.53	17.94	10.41	--	--	--	21,000	2,000	<25[2]	1,400	650	<25[2]	--	--	--	--	--	--	--
	09/19/14	8.61		9.33	--	--	--	18,000	1,900	11	1,200	839.9	<5[2]	--	--	--	--	--	--	--
MW-5B	06/19/14	7.52	17.92	10.40	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	32	--	--	--	--	--	--	--
MW-6A	06/19/14	7.66	18.05	10.39	--	--	--	43,000	3,300	<50[2]	2,000	3,100	77	--	--	--	--	--	--	--
	09/19/14	8.80		9.25	--	--	--	28,000	3,400	19	2,000	1,900	45	--	--	--	--	--	--	--
MW-6B	06/19/14	7.32	17.69	10.37	--	--	--	86	<0.50	<0.50	<0.50	<0.50	82	--	--	--	--	--	--	--

TABLE 2
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Former Olympic Service Station, 1436 Grant Avenue, San Lorenzo, CA

Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)		
EX-1	06/03/11	6.96	18.14	11.18	--	--	--	76	8.3	<0.50	<0.50	0.99	37	--	--	--	--	--	--	--		
	08/02/11	7.20		10.94	--	--	--	420	37	0.65	3.5	2.9	32	--	--	--	--	--	--	--	--	
	09/29/11	7.53		10.61	--	--	--	150	13	<0.50	3.2	1.1	23	<1.0	1.2	<1.0	<10	--	--	<1.0		
	10/12/11	6.63		11.51	--	--	--	180	23	0.51	2.8	0.97	27	<1.0	1.0	<1.0	<10	--	--	<1.0		
	11/09/11	7.28		10.86	--	--	--	<50	4.3	<0.50	<0.50	<0.50	34	<1.0	<1.0	<1.0	<10	--	--	<1.0		
	12/12/11	7.50		10.64	--	--	--	520	32	1.3	13	5.58	20	--	--	--	--	--	--	--		
	03/15/12	6.19		11.95	--	--	--	<50	2.6	<0.50	<0.50	<0.50	8.4	--	--	--	--	--	--	--		
	08/28/12	7.53		10.61	--	--	--	410	88	1.2	36	1.4	42	--	--	--	--	--	--	--		
	02/27/13	7.02		11.12	--	--	--	<50	0.75	<0.50	<0.50	<0.50	14	--	--	--	--	--	--	--		
	08/26/13	NM		NM							Well Covered by Car - No Sample Collected											
	06/19/14	7.59		10.55	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	19	--	--	--	--	--	--	--	--	
	EX-2	06/03/11		6.81	18.14	11.33	--	--	--	760	<1.5[2]	<1.5[2]	<1.5[2]	<1.5[2]	1,100	--	--	--	--	--	--	--
		08/02/11		7.03		11.11	--	--	--	920	8.7	<1.0[2]	<1.0[2]	<1.0[2]	920	--	--	--	--	--	--	--
09/29/11		7.37	10.77	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10/12/11		6.65	11.49	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
11/09/11		7.08	11.06	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/12/11		7.35	10.79	--		--	--	590	5.6	<1.0[2]	<1.0[2]	<1.0[2]	920	--	--	--	--	--	--	--		
03/15/12		6.58	11.56	--		--	--	100	<0.50	<0.50	<0.50	<0.50	130	--	--	--	--	--	--	--		
08/28/12		7.35	10.79	--		--	--	<300[2]	2.5	<1.5[2]	<1.5[2]	<1.5[2]	540	--	--	--	--	--	--	--		
02/27/13		6.82	11.32	--		--	--	320	0.51	<0.50	<0.50	<0.50	420	--	--	--	--	--	--	--		
08/26/13		7.56	10.58	--		--	--	270	<0.50	<0.50	<0.50	<0.50	340	--	--	--	--	--	--	--		
06/19/14		7.37	10.77	--		--	--	150	<0.50	<0.50	<0.50	<0.50	170	--	--	--	--	--	--	--		
EX-3		06/03/11	6.55	17.63		11.08	--	--	--	95	0.93	<0.50	<0.50	<0.50	78	--	--	--	--	--	--	
		08/02/11	6.82			10.81	--	--	--	130	1.5	<0.50	<0.50	<0.50	150	--	--	--	--	--	--	
	09/29/11	7.15	10.48		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	10/12/11	6.37	11.26		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	11/19/11	6.89	10.74		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	12/12/11	7.12	10.51		--	--	--	100	2.4	<0.50	<0.50	<0.50	84	--	--	--	--	--	--			
	03/15/12	5.70	11.93		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	30	--	--	--	--	--	--			
	08/28/12	7.15	10.48		--	--	--	100	<0.50	<0.50	<0.50	<0.50	190	--	--	--	--	--	--			
	02/27/13	6.63	11.00		--	--	--	84	<0.50	<0.50	<0.50	<0.50	93	--	--	--	--	--	--			
	08/26/13	7.41	10.22		--	--	--	120	<0.50	<0.50	<0.50	<0.50	120	--	--	--	--	--	--			
	06/19/14	7.20	10.43		--	--	--	96	<0.50	<0.50	<0.50	<0.50	110	--	--	--	--	--	--			
EX-4	06/19/14	7.64	18.30	10.66	--	--	--	210	9.5	<0.50	0.55	0.74	10	--	--	--	--	--				
EX-5	06/19/14	7.84	18.41	10.57	--	--	--	110	6.0	<0.50	<0.50	<0.50	14	--	--	--	--	--				
EX-6	06/19/14	7.81	18.29	10.48	--	--	--	190	25	<0.50	5.9	<0.50	18	--	--	--	--	--				
EX-7	06/19/14	7.44	18.06	10.62	--	--	--	56	0.79	<0.50	<0.50	<0.50	50	--	--	--	--	--				

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Well ID	Date Collected	Depth to Water (feet)	Top of Casing Elevation (ft msl)	Grouwater Elevation (ft msl)	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (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)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
Legend/Key:																				
ft msl = feet above mean sea level			TPH - mo = total petroleum hydrocarbons as motor oil			MTBE - methyl tertiary butyl ether			TAME = tert amyl methyl ether			Analytical Methods:								
µg/L = micrograms per liter			TPHd = total petroleum hydrocarbons as diesel			DIPE = di isopropyl ether			TBA = tert butyl ether			GRO analyzed by EPA Method SW8015B/SW8260B, all other analytes analyzed by SW8260B.								
NM = Not measured			GRO = gasoline range organics C6-C12			ETBE = ethyl tertiary butyl ether			EDB = 1,2-dibromoethane			Analytical methods prior to February 2011, are available in various reports on the Alameda County Environmental Health Department files.								
									1,2-DCA = 1,2-dichloroethane											
* = Hydrocarbon reported in the gasoline range does not match the gasoline standard.																				
** = Hydrocarbon reported is in the early diesel range and does not match the diesel standard.																				
*** = Hydrocarbon reported does not match the pattern of the diesel standard.																				
-- = No sample collected																				
[1] Weakly modified or unmodified gasoline is significant.																				
[2] = Reporting limits were increased due to high concentrations of target analytes.																				
[3] = Sample also analyzed for halogenated volatile organic compounds (EPA Method 8010) and semivolatle organic compounds (EPA Method 8270A); all analytes reported as non-detect.																				
												Analytical data for samples collected prior to 2011 are obtained from documents available in the Alameda County Environmental Health Department files.								
												Well elevations and locations surveyed by Morrow Surveying on June 15, 2011. Monitoring wells MW-5A/B, MW-6A/B, and extraction wells EX-4 through EX-7 surveyed by Morrow Surveying on June 2, 2014.								

**TABLE 3
OPERATIONAL UPTIME AND FLOW SUMMARY
DPE REMEDIATION EVENT**

Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date & Time	Notes	Hour Meter Reading	Applied Vac "Hg	Area ft ²	Sys Inf Temp °F	Sys Inf Air Velocity fpm	Sys Inf Air Flowrate acfm	Control Temp °F	Effluent Air Temp °F	Area ft ²	Dilution Air Temp °F	Dilution Air Velocity fpm	Dilution Air Flowrate acfm	pH		PID	
														Inf pH	Eff °F	Sys Inf ppmv	Eff ppmv
7/21/14 6:00	1	3,478.1	16	0.0491	95	2,000	98.2	1,452	1,411	0.0218	76	680	15	7.69	7.60	310	1.6
7/24/14 6:00	2	3,480.0	19	0.0491	95	2,000	98.2	1,460	1,410	0.0218	75	800	17	--	--	350	2.1
7/29/14 5:30	3	3,599.7	16	0.0491	90	2,200	108.0	1,465	1,425	0.0218	76	720	16	--	8.01	310	1.1
8/4/14 7:10	4	3,600.4	15	0.0491	85	2,000	98.2	1,493	1,430	0.0218	69	840	18	--	--	300	1.2
8/18/14 6:30	5	3,862.0	13	0.0491	90	2,350	115.4	1,475	1,426	--	--	--	--	7.87	7.89	110	2.3
9/8/14 7:30		4,247.0	12	0.0491	100	2,600	127.6	1,463	1,422	--	--	--	--	7.81	7.87	90	2.1
9/19/14 5:00		4,509.0	12	0.0491	100	2,700	132.5	1,464	1,425	--	--	--	--	--	--	150	1.7
Average			15		94	2,264	111.1	1,467	1,421		74	760	17	7.79	7.8	231	1.7

Legend / Key:

Vac = Vacuum

"Hg = inches mercury

ft² = square feet

Temp = temperature

°F = Fahrenheit

Inf = Influent

-- = not applicable/ not measured

fpm = feet per minute

acfm = actual cubic feet per minute

ppmv = parts per million by volume

PID = Photoionization Detector

Sys Inf = System Influent (includes dilution air)

Eff = Effluent

Sample Calculation:

air flow = area of pipe (0.0491 ft²) × air velocity (fpm) = flowrate (acfm)

Notes:

Influent pipe diameter = 3.0 inches

- 1 System briefly started to conduct an initial sampling event extracting from wells EX-2 through EX-7. Stingers placed at 13-feet (EX-2), 10-feet (EX-3, EX-4, and EX-6), 13-feet (EX-5) and 8-feet bgs (EX-7). System down upon departure waiting results.
- 2 System down upon arrival, system re-started for 1-week operation per groundwater discharge permit. System modified to extract from extraction wells EX-2 through EX-6.
- 3 Samples obtained per discharge permit, system shutdown upon departure pending approval of analytical results to begin discharging treated groundwater into on-site sewer cleanout.
- 4 System down upon arrival; groundwater discharge permit approved. System re-started upon departure for continuous operation extracting from wells EX-2 through EX-7 with stinger placed at 6-feet bgs (EX-7).
- 5 System down upon arrival, stinger depths modified, EX-2 through EX-4 and EX-6 placed at 10-feet, EX-5 at 13-feet, and EX-7 at 5-feet bgs.

TABLE 4
INDUCED VACUUM AND DEPTH TO WATER MEASUREMENT SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date & Time	Notes	Induced Vacuum ("WC) &/or Depth to Water (feet bgs)											
		MW-1		MW-2		MW-3		MW-4		MW-5A		MW-6A	
		"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs	"WC	feet bgs
7/21/14 6:00	1	0.00	7.80	0.00	7.38	0.00	7.45	0.0	7.40	0.0	7.48	0.0	7.60
7/24/14 6:00	2	--	--	0.10	8.61	1.00	9.32	0.52	7.86	0.65	7.70	0.50	7.73
7/29/14 5:30		0.01	9.10	0.14	8.98	2.35	9.62	0.75	8.74	0.75	8.80	0.57	8.45
8/4/14 7:10	3	--	--	0.30	8.44	1.37	8.83	0.42	7.73	0.41	8.25	0.39	8.21
8/18/14 6:30	4	--	--	0.55	8.47	0.04	8.95	0.30	8.03	0.36	8.50	0.32	8.52
9/8/14 7:30		0.01	9.09	0.49	8.87	1.19	9.37	--	--	0.40	8.53	0.34	8.69
9/19/14 5:00		0.00	9.16	0.50	8.98	3.33	9.47	--	--	0.40	8.61	0.37	8.80
Average		0.01	8.79	0.30	8.53	1.33	9.00	0.40	7.95	0.42	8.27	0.36	8.29
Nearest Extraction well & approx. distance (feet)		EX-2	22'	EX-7	11'	EX-6	9'	EX-1	13'	EX-3	28'	EX-6	54'
Legend / Key:													
"WC = Inches of water column bgs = below ground surface													
* Positive pressure -- = not applicable/ not measured													
Notes:													
1 System extracting from wells EX-2 through EX-7. Stinger depths placed at 13-feet bgs (EX-2 and EX-5), 10-feet bgs (EX-3, EX-4 and EX-6), and 8-feet bgs (EX-7).													
2 System modified extracting from wells EX-2 through EX-6.													
3 System modified extracting from wells EX-2 through EX-7; stinger placed in well EX-7 at 5-feet bgs.													
4 System modified stingers placed at 10-feet bgs (EX-2, EX-4 and EX-6), 13-feet bgs (EX-5), and 5-feet bgs (EX-7).													

TABLE 5
SVE COMPONENT - ANALYTICAL RESULTS AND FLOW RATES
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Sample Time	Flowrate *		Influent Temp. (°F)	Vacuum "Hg	Sample Location	Lab Sample Number	Analyses (mg/m ³)					
			(acfm)	(scfm)					GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
07/21/14	1	7:30	98.2	93.4	95	16	ASYS INF A EFF	88741-01	5,900	1.0	<0.70	<0.70	<0.70	1.8
								88741-02	<20	<0.20	<0.20	<0.25	<0.20	
08/04/14		7:40	98.2	95.1	85	15	ASYS INF A EFF	88839-01	3,800	4.0	<0.50	0.71	<0.50	1.4
								88839-02	<20	<0.20	<0.20	<0.25	<0.20	
09/08/14		8:10	127.6	120.3	100	12	ASYS INF A EFF	89089-01	410	0.45	<0.20	<0.25	<0.20	0.80
								89089-02	<20	<0.20	<0.20	<0.25	<0.20	

Legend / Key:

acfm = actual cubic feet per minute
scfm = standard cubic feet per minute
Temp. (°F) = temperature in degrees Fahrenheit
"Hg = inches mercury
GRO = gasoline range organics (C4-C13)

BTEX = benzene, toluene, ethylbenzene, and xylenes
MTBE = methyl tertiary butyl ether
ASys Inf = system influent
A Eff = effluent
mg/m³ = milligrams per cubic meter

Laboratory Analytical Methods and Facility:

GRO analyzed using EPA Method 8260B
BTEX and MTBE analyzed using EPA Method 8260B
Kiff Analytical LLC (ELAP #08263CA)

* Flowrate used based on most representative field data at time of sampling.

Calculations:

Actual flow rate (acfm) is converted to standard flow rate (scfm) using the following formulas:

Pressure corrected influent flow rate = Flow was taken on positive side of blower, no pressure correction factor needed.
Temperature Corrected influent flow rate = Pressure corrected flow rate * {(460 R + 68deg F)/(deg F+ 460 R)}

Notes:

1 DPE test, extracting from extraction wells EX-2 through EX-7.

TABLE 6
SVE COMPONENT - EXTRACTION AND EMISSION RATES
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Influent Sample Time	Hour Meter Reading ¹	Sys. Influent Flowrate (scfm)	Effluent Flowrate ² (scfm)	Sys. Influent Conc. (mg/m ³)			Effluent Conc. (mg/m ³)			Extraction Rate from Wells (lbs/day) ³			Emissions Rate to Atmosphere (lbs/day)			Destruction Removal Efficiency (%)	Cumulative GRO Removal (lbs)	
						GRO	Benzene	MTBE	GRO	Benzene	MTBE	GRO	Benzene	MTBE	GRO	Benzene	MTBE	GRO	Benzene	MTBE	GRO	Period	Total
7/21/14	1	7:30	3,478.1	93.4	173.4	5,900	1.0	1.8	<20	<0.20	<0.20	49.54	0.01	0.02	0.31	0.003	0.003	99.4	3.1	3.1
8/4/14		7:40	3,600.4	95.1	175.1	3,800	4.0	1.4	<20	<0.20	<0.20	41.47	0.02	0.01	0.31	0.003	0.003	99.2	208.7	211.8
9/8/14		8:10	4,247.0	120.3	200.3	410	0.45	0.80	<20	<0.20	<0.20	22.77	0.02	0.01	0.36	0.004	0.004	98.4	613.5	825.3

Legend / Key:

acfm = actual cubic feet per minute
scfm = standard cubic feet per minute

GRO = gasoline range organics
MTBE = methyl tertiary butyl ether

Conc. = concentration
lbs/day = pounds per day

Sys. = system
mg/m³ = milligrams per cubic meter

¹ Hour meter readings are approximate based on the generator hours recorded on the field data sheets. Hour meter readings were not taken at exact sampling times, therefore, times noted are readings obtained closest to the actual sampling times.

² Effluent Flow rate = System Influent flow rate + combustion air flow rate (80 cfm per manufacturer)

³ To calculate the extraction rate, the system influent concentrations are averaged between the sampling dates.

Sample Calculations:

$$\text{Extraction Rate from Wells (lbs/day)} = \text{Sys Inf Flowrate (ft}^3/\text{min)} \times \text{Avg. Inf Conc (mg/m}^3\text{)} \times (1 \text{ lb}/453,593\text{mg)} \times (1,440 \text{ min}/\text{day)} \times (1 \text{ m}^3/35.314\text{ft}^3)$$

$$\text{Destruction Removal Efficiency, \%} = \frac{(\text{Extraction Rate} - \text{Emission Rate}) \times 100}{\text{Extraction Rate}}$$

Notes:

¹ DPE test, extracting from extraction wells EX-2 through EX-7. GRO removed is calculated based on assuming 1.5 hours of operation occurred from start of test to first sample time.

TABLE 7
GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Sample Time	Sample Location	Laboratory Sample ID	GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
07/21/14	1	7:43	WINF	STR14072144-01A	310	3.3	<0.50	<0.50	<0.50	37
		7:54	WGAC1	STR14072240-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:47	WGAC2	STR14072240-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		9:00	WEFF	STR14072145-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
07/29/14		5:55	WEFF	STR14072940-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
08/18/14		7:15	WINF	STR14081941-01A	170	3.4	<0.50	0.97	<0.50	39
		7:10	WGAC1	STR14081942-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:05	WGAC2	STR14081942-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:00	WEFF	STR14081940-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
09/08/14		7:55	WINF	STR14090941-01A	<50	0.89	<0.50	<0.50	<0.50	12
		7:50	WGAC1	STR14090942-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:45	WGAC2	STR14090942-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:40	WEFF	STR14090940-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50

<p>Legend / Key:</p> <p>GRO = Gasoline Range Organics C4-C13</p> <p>MTBE = Methyl tertiary butyl ether</p> <p>BTEX = Benzene, toluene, ethylbenzene, xylenes</p> <p>µg/L = micrograms per liter</p> <p>-- = Not analyzed</p> <p>Notes:</p> <p>1 DPE test, extracting from extraction wells EX-2 through EX-7.</p>	<p>Analytical Methods /Laboratory:</p> <p>GRO analyzed using EPA Method SW8015B/SW8260B</p> <p>BTEX and MTBE analyzed using EPA Method SW8260B</p> <p>Samples analyzed by Alpha Analytical, Inc. (ELAP #2019)</p>
---	--

TABLE 8
GROUNDWATER EXTRACTION COMPONENT - GROUNDWATER ANALYTICAL DATA SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Sample Time	Sample Location	Laboratory Sample ID	Mercury	Cyanide	Cr	Ni	Cu	Zn	As	Se	Ag	Cd	Pb	Phenols	
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
07/21/14	1	7:43	WINF	STR14072144-01A	<0.20	<0.0001	<10	<10	<20	<100	<5.0	5.8	<5.0	<2.0	6.7	<5.0	
		7:54	WGAC1	STR14072240-01A	--	--	--	--	--	--	--	--	--	--	--	--	--
		7:47	WGAC2	STR14072240-02A	--	--	--	--	--	--	--	--	--	--	--	--	--
		9:00	WEFF	STR14072145-01A	<0.20	<0.0001	<10	<10	<20	<100	7.7	<5.0	<5.0	<2.0	<5.0	<5.0	

Legend / Key:

Phenols = Pentachlorophenol and 2,3,4,6-Tetrachlorophenol

µg/L = micrograms per liter

-- = Not analyzed

Notes:

1 DPE test, extracting from extraction wells EX-2 through EX-7. Extended analytical results obtained to comply with groundwater discharge permit requirements.

Analytical Methods /Laboratory:

Metals analyzed using EPA Method 200.8

Mercury analyzed using EPA Method 245.1

Phenols analyzed using EPA Method SW8270C-SIM

Cyanide analyzed using EPA Method SM4500-CNE

Alpha Analytical, Inc. (California #2019; NELAC #01154CA)

TABLE 9
GROUNDWATER EXTRACTION COMPONENT - OPERATIONAL PERFORMANCE AND MASS REMOVAL SUMMARY
DPE REMEDIATION EVENT
Former Olympic Station, 1436 Grant Avenue, San Lorenzo, California

Date	Notes	Sample Time	Hour Meter Reading ¹	Sewer Discharge Data				Analytical Results Influent			Mass Removed This Period ^b			Cumulative Mass Removed		
				Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Sewer Discharge Flow Rate (gpm) ^a	GRO (µg/L)	Benzene (µg/L)	MTBE (µg/L)	GRO (lbs)	Benzene (lbs)	MTBE (lbs)	GRO (lbs)	Benzene (lbs)	MTBE (lbs)
7/21/14	1	7:43	3,478.1	60,440	--	--	--	Start of Test								
07/29/14		5:55	3,599.7	110,120	49,680	49,680	6.81	310	3.3	37	0.13	0.0014	0.015	0.13	0.0014	0.015
08/18/14		7:15	3,862.0	196,310	86,190	135,870	5.48	170	3.4	39	0.17	0.0024	0.027	0.30	0.0038	0.043
09/08/14		7:55	4,247.0	305,370	109,060	244,930	4.72	<50	0.89	12	0.10	0.0020	0.023	0.40	0.0057	0.066

Legend / Key:

GRO = Gasoline Range Organics C4-C13

µg/L = micrograms per liter

lbs = pounds

MTBE = Methyl tertiary butyl ether

gpm = gallons per minute

-- = data not collected/not calculated

Analytical Methods /Laboratory:

GRO analyzed using EPA Method SW8015B/SW8260B

Benzene and MTBE analyzed using EPA Method SW8260B

Alpha Analytical, Inc. (ELAP # 2019)

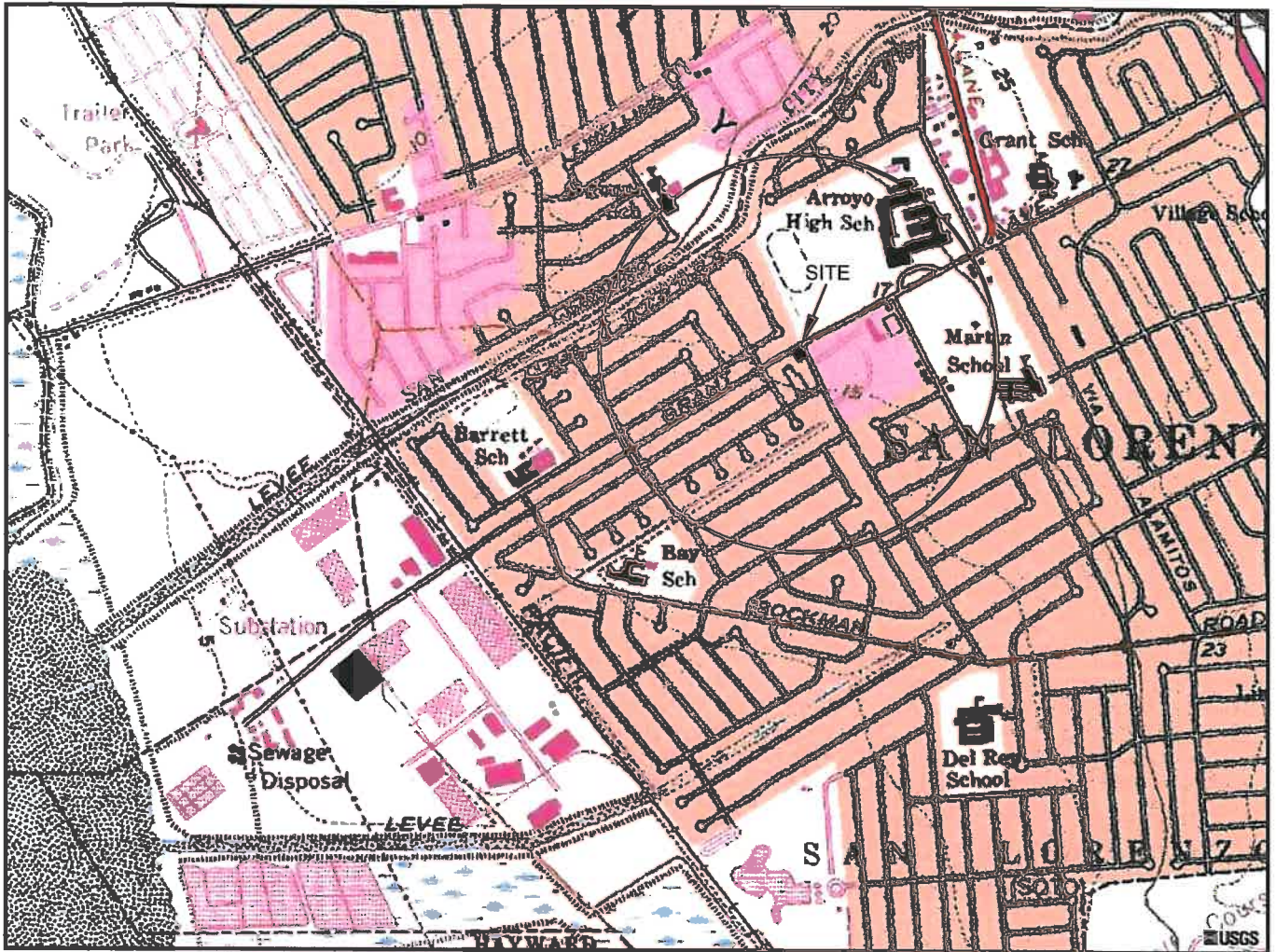
^a Not representative of actual flow rate, calculation affected by system down time.

^b Mass removed this period (pounds) = Average concentration (µg/L)[between the sample dates] x Period gallons x (2.2046 x 10⁻⁹)(lb/µg)/ 0.26418 (gal/L)

¹ Hour meter readings were not taken at exact sampling times, therefore, times noted are readings obtained closest to the actual sampling times.

Notes:

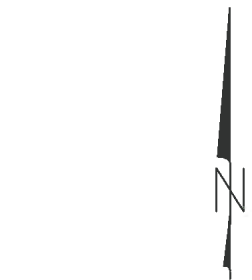
1 DPE test, extracting from extraction wells EX-2 through EX-7.



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



QUADRANGLE LOCATION



0 1800 FT
 APPROXIMATE SCALE

STRATUS
 ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA

FIGURE

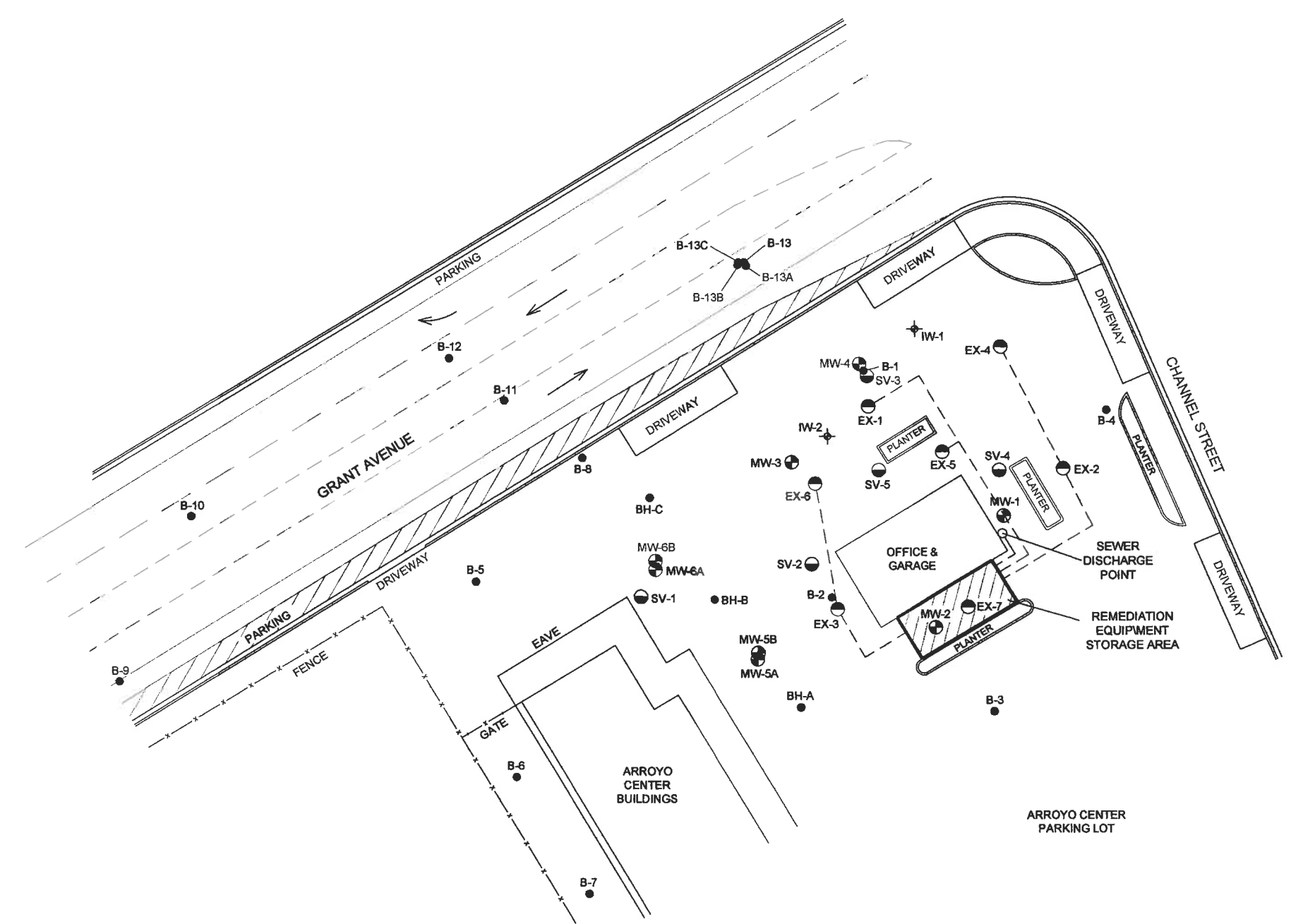
1

PROJECT NO.
 2115-1436-01

SITE LOCATION MAP

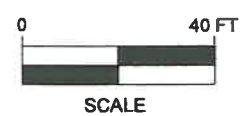


- LEGEND
- MW-1 MONITORING WELL LOCATION
 - SV-1 VAPOR EXTRACTION WELL LOCATION
 - EX-1 EXTRACTION WELL LOCATION
 - ⊕ IW-1 OZONE INJECTION WELL LOCATION
 - B-1 SOIL BORING LOCATION
 - APPROXIMATE LOCATIONS OF ABOVE GROUND CONVEYANCE PIPING/TUBING



STRATUS
ENVIRONMENTAL, INC.

PATH NAME: Olympic
DRAFTER INITIALS: JMP
DATE LAST REVISED: September 30, 2014
FILENAME: Olympic Siteplan

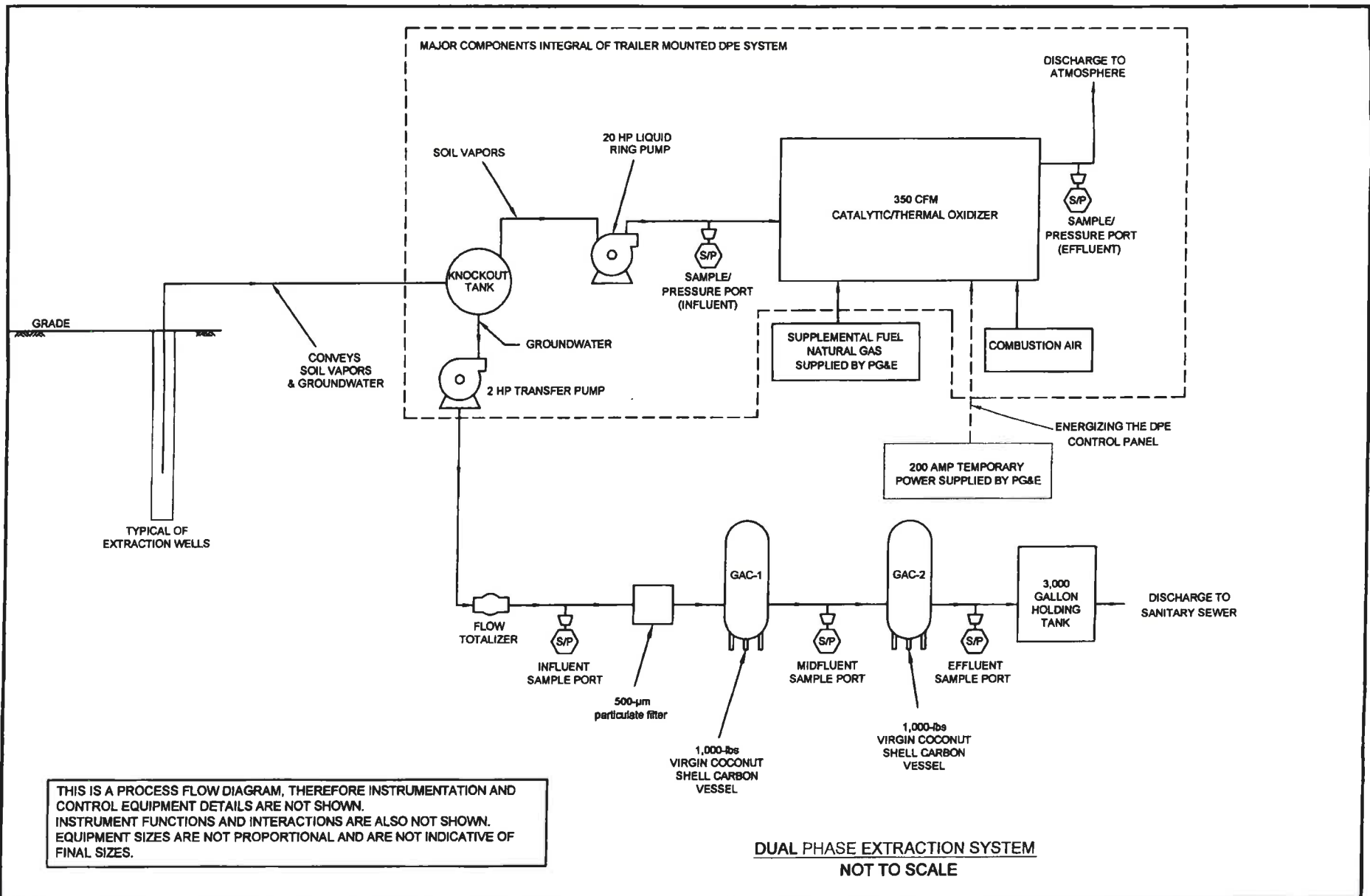


FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2115-1436-01



STRATUS
ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
PROCESS FLOW DIAGRAM

FIGURE
3
PROJECT NO.
2153-14930-011

APPENDIX A
FIELD DATA SHEETS



Site Address 1436 Grant
 City SPR-LEWIS
 Sampled By: _____
 Signature ORILL

ORIGINAL

Site Number Olympic
 Project Number _____
 Project PM _____
 DATE 9/19/14

Well ID <u>MW 5A</u> <u>.5</u>					Well ID <u>MW 6A</u> <u>.5</u>				
Purge start time			Odor <u>0</u> N		Purge start time			Odor <u>0</u> N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>0510</u>	<u>21.0</u>	<u>7.93</u>	<u>668</u>	<u>2</u>	time <u>0520</u>	<u>22.3</u>	<u>7.49</u>	<u>655</u>	<u>2</u>
time <u>0512</u>	<u>21.4</u>	<u>7.80</u>	<u>667</u>	<u>.5</u>	time <u>0522</u>	<u>22.9</u>	<u>7.46</u>	<u>663</u>	<u>10</u>
time					time				
time					time				
purge stop time <u>1.11 20</u>			ORP <u>376</u>		purge stop time <u>1.65 20</u>			ORP <u>354</u>	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	
Well ID					Well ID				
Purge start time			Odor Y N		Purge start time			Odor Y N	
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time			ORP		purge stop time			ORP	

**Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California**

ORIGINAL

Date: 7-21-14
Onsite Time: 0600
Offsite Time: 0930

Technician: CHILL
Project Engineer: Debra
Weather Conditions: Clouds
Ambient Temperature: 62

System Information	
System Status Upon Arrival:	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/>
System Status Upon Departure:	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>wait for sample</i>
Hour Meter Reading:	<u>3478.1</u>
Totalizer Reading on DPE Unit:	<u>60440 start</u> <u>61480 stop</u>
Chart Recorder Paper Replaced:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1452</u>
% Dilution Valve Open:	<u>X</u>
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	<u>080/26/2"</u>
pH Meter Calibration	<u>7-19-14</u>

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>2000</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/Hg	<u>16" Hg</u>						
Temperature, deg F		<u>95</u>	<u>1411</u>				
PID Readings, ppmv		<u>310</u>	<u>1.6</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>0</u>				MW-1	<u>0</u>	<u>7.80</u>
EX-2	<u>100</u>			<u>13</u>	MW-2	<u>0</u>	<u>7.38</u>
EX-3	}			<u>10</u>	MW-3	<u>0</u>	<u>7.45</u>
EX-4				<u>10</u>	MW-4	<u>0</u>	<u>7.40</u>
EX-5				<u>13</u>	MW-5A	<u>0</u>	<u>7.48</u>
EX-6				<u>10</u>	MW-6A	<u>0</u>	<u>7.60</u>
EX-7				<u>8</u>			

P14 Test Cond
INF 7.69 19.4 486
EFF 7.60 19.6 512

**Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California**

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF 1024397-06	7-21-14 0730	W INF	72114 0743
A EFF 1024397-05	1 0720	W GAC1	{ 0754
		W GAC2	} 0747
		W EFF	} 0900

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resetable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF/WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

* Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 7-24-14
Onsite Time: 0800
Offsite Time: 0800

Technician: CHILL
Project Engineer: Debbi
Weather Conditions: Cloudy
Ambient Temperature: 60

System Information	
System Status Upon Arrival:	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/> <i>Restart Fuel week</i>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Hour Meter Reading:	<u>3480</u>
Totalizer Reading on DPE Unit:	<u>61480 start</u>
Chart Recorder Paper Replaced:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1460</u>
% Dilution Valve Open:	<u>yes</u>
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	<u>800/75% / 2"</u>
pH Meter Calibration:	<u>yes</u>

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>2000</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC/Hg	<u>19" Hg</u>						
Temperature, deg F		<u>95</u>	<u>1410</u>				
PID Readings, ppmv		<u>350</u>	<u>2.1</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/Hg	DTW
EX-1	<u>0</u>				MW-1		
EX-2	<u>100</u>			<u>10</u>	MW-2	<u>-0.10</u>	<u>8.61</u>
EX-3	<u>100</u>			<u>10</u>	MW-3	<u>-1.00</u>	<u>9.32</u>
EX-4	<u>100</u>			<u>10</u>	MW-4	<u>-0.52</u>	<u>7.86</u>
EX-5	<u>100</u>			<u>13</u>	MW-5A	<u>-0.65</u>	<u>7.70</u>
EX-6	<u>100</u>			<u>10</u>	MW-6A	<u>-1.00</u>	<u>7.73</u>
EX-7	<u>100</u>			<u>5</u>			

9GPM - From wells cycling
14GPM To sewer cycling

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF		W INF	
A EFF		W GAC1	
		W GAC2	
		W EFF	

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resetable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF/WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

* Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 7-29-14
Onsite Time: 0530
Offsite Time: 0615

Technician: CHILL
Project Engineer: Debbie
Weather Conditions: Clear
Ambient Temperature: 60

System Information			
System Status Upon Arrival:	Operational <input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>	
System Status Upon Departure:	Operational <input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/>	<i>Turn off wait for Lot 13</i>
Hour Meter Reading:	<u>3599.7</u>		
Totalizer Reading on DPE Unit:	<u>110120</u>	Chart Recorder Paper Replaced	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1465</u>	% Dilution Valve Open:	<u>Yes</u>
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	<u>720/760/2"</u>
		pH Meter Calibration	<u>7.25.14</u>

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>2200</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/"Hg	<u>16" Hg</u>						
Temperature, deg F		<u>90</u>	<u>1425</u>				
PID Readings, ppmv		<u>310</u>	<u>1.1</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/"Hg	DTW
EX-1	<u>8</u>				MW-1	<u>-0.01</u>	<u>9.10</u>
EX-2	<u>100</u>				MW-2	<u>-0.14</u>	<u>8.98</u>
EX-3	<u>1</u>				MW-3	<u>-2.35</u>	<u>9.62</u>
EX-4	<u>1</u>				MW-4	<u>-1.75</u>	<u>8.74</u>
EX-5	<u>1</u>				MW-5A	<u>-1.75</u>	<u>8.80</u>
EX-6	<u>100</u>				MW-6A	<u>-0.57</u>	<u>8.45</u>
EX-7	<u>8</u>						

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF		W INF	
A EFF		W GAC1	
		W GAC2	
		W EFF	7/29/14 0755

*PH 10.2
EFF 8.01 18.6 490*

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resettable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF/WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

* Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 8414
Onsite Time: 0700
Offsite Time: 0800

Technician: PHILL
Project Engineer: Dubby
Weather Conditions: Clouds
Ambient Temperature: 40

System Information			
System Status Upon Arrival:	Operational <input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/>	<u>Restart</u>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>	
Hour Meter Reading:	<u>3600.4</u>		
Totalizer Reading on DPE Unit:	<u>110360</u>	Chart Recorder Paper Replaced <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes
Combustion Chamber Operating Temperature:	<u>1493</u>	% Dilution Valve Open:	<u>yes</u>
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	<u>840/69°/2"</u>
		pH Meter Calibration	

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>2000</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC/Hg	<u>15" Hg</u>						
Temperature, deg F		<u>85</u>	<u>1430</u>				
PID Readings, ppmv		<u>300</u>	<u>1.2</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>0</u>				MW-1	<u>CAR</u>	
EX-2	<u>100</u>				MW-2	<u>-0.30</u>	<u>8.44</u>
EX-3	<u>100</u>				MW-3	<u>-1.37</u>	<u>8.83</u>
EX-4	<u>100</u>				MW-4	<u>-0.42</u>	<u>7.73</u>
EX-5	<u>100</u>				MW-5A	<u>-0.41</u>	<u>8.25</u>
EX-6	<u>100</u>				MW-6A	<u>-0.39</u>	<u>8.21</u>
EX-7	<u>100</u>			<u>5</u>			

**Former Olympic Service Station
DPE Mass Extraction Event**

1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF 1024397-20	5/4/14 0740	W INF	
A EFF 1024397-01	" 0736	W GAC1	NO
		W GAC2	Sample
		W EFF	Just Sampled 7-29-14

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resettable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF/WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

* Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

Former Olympic Service Station

DPE Mass Extraction Event

1436 Grant Avenue

San Lorenzo, California

ORIGINAL

Date: 8-18-14
 Onsite Time: 0630
 Offsite Time: 0745

Technician: CHILL
 Project Engineer: Debra
 Weather Conditions: Cloudy
 Ambient Temperature: 52

System Information			
System Status Upon Arrival:	Operational <input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/>	<i>High Fume with broken pump</i>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>	
Hour Meter Reading:	<u>3862</u>		
Totalizer Reading on DPE Unit:	<u>196310</u>	Chart Recorder Paper Replaced <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Combustion Chamber Operating Temperature:	<u>1475</u>	% Dilution Valve Open: <u>0</u>	
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
		pH Meter Calibration	<u>8-15-14</u>

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>2350</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC/Hg	<u>13" Hg</u>						
Temperature, deg F		<u>90</u>	<u>1426</u>				
PID Readings, ppmv		<u>110</u>	<u>2.3</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>0</u>				MW-1	<u>CAIK</u>	
EX-2	<u>100</u>			<u>10</u>	MW-2	<u>-0.55</u>	<u>8.47</u>
EX-3	<u>100</u>			<u>10</u>	MW-3	<u>-0.04</u>	<u>8.95</u>
EX-4	<u>100</u>			<u>10</u>	MW-4	<u>-0.30</u>	<u>8.23</u>
EX-5	<u>100</u>			<u>13</u>	MW-5A	<u>-0.36</u>	<u>8.50</u>
EX-6	<u>100</u>			<u>10</u>	MW-6A	<u>-0.32</u>	<u>8.52</u>
EX-7	<u>100</u>			<u>5</u>			

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID <i>pH</i>	Date & Time
A SYS INF		W INF <i>7.87</i>	<i>8/14</i> <i>0715</i>
A EFF		W GAC1	<i>0710</i>
		W GAC2	<i>0705</i>
		W EFF <i>7.89</i>	<i>0700</i>

14 GPM TO Sewer

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resettable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm
<i>Replace Fuse - Amps Not High on Pump</i>
<i>Clean Float Tube & Floats Restart system</i>

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF//WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

* Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

OPM Inc.

Date: 9-8-14
Onsite Time: 0730
Offsite Time: 0830

Technician: CHILL
Project Engineer: DeBlanc
Weather Conditions: Cloudy
Ambient Temperature: 60

System Information			
System Status Upon Arrival:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
System Status Upon Departure:	Operational	<input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>
Hour Meter Reading:	<u>4247</u>		
Totalizer Reading on DPE Unit:	<u>305370</u>	Chart Recorder Paper Replaced	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1463</u>	% Dilution Valve Open:	<input checked="" type="checkbox"/>
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
		pH Meter Calibration	<u>9-5-15</u>

Field Measurements				
Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				
Air Velocity, FPM		<u>2600</u>		
Pipe Diameter, inches		<u>3</u>		
Air Flow Rate, cfm				
Applied Vacuum, "WC"/Hg	<u>12" Hg</u>			
Temperature, deg F		<u>100</u>	<u>1422</u>	
PID Readings, ppmv		<u>90</u>	<u>2.1</u>	

Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1					MW-1	<u>-0.01</u>	<u>9.09</u>
EX-2	<u>100</u>				MW-2	<u>-0.49</u>	<u>8.87</u>
EX-3	<u>100</u>				MW-3	<u>-1.19</u>	<u>9.37</u>
EX-4	<u>100</u>				MW-4	<u>CAR</u>	
EX-5	<u>100</u>				MW-5A	<u>-0.40</u>	<u>9.53</u>
EX-6	<u>100</u>				MW-6A	<u>-0.34</u>	<u>8.69</u>
EX-7	<u>100</u>						

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

DRAFT

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF 1024524-02	9/5/14 0910	W INF	9/5/14 0755
A EFF 1024524-02	7 0805	W GAC1	0750
		W GAC2	0745
		W EFF	0740

PH
INF 7.81
EFF 7.87

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resettable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF/WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

* Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

**Former Olympic Service Station
DPE Mass Extraction Event**
1436 Grant Avenue
San Lorenzo, California

ORIGINAL

Date: 9/19/14
Onsite Time: 0500
Offsite Time: 0615

Technician: CHILL
Project Engineer: Debbie
Weather Conditions: Clear
Ambient Temperature: 50

System Information	
System Status Upon Arrival:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
System Status Upon Departure:	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Hour Meter Reading:	<u>4509</u>
Totalizer Reading on DPE Unit:	<u>374710</u>
Chart Recorder Paper Replaced:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1464</u>
% Dilution Valve Open:	<u>0</u>
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
pH Meter Calibration	<u>YES 9-12-14</u>

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>2700</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC/Hg	<u>12" Hg</u>						
Temperature, deg F		<u>100</u>	<u>1429</u>				
PID Readings, ppmv		<u>150</u>	<u>1.7</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC/Hg	DTW
EX-1	<u>0</u>				MW-1	<u>0</u>	<u>9.16</u>
EX-2	<u>100</u>				MW-2	<u>-0.50</u>	<u>8.98</u>
EX-3	<u>100</u>				MW-3	<u>-3.53</u>	<u>9.47</u>
EX-4	<u>100</u>				MW-4	<u>CHILL</u>	
EX-5	<u>100</u>				MW-5A	<u>-0.40</u>	<u>8.61</u>
EX-6	<u>100</u>				MW-6A	<u>-0.37</u>	<u>8.00 8.80</u>
EX-7	<u>100</u>						

WVTR 3001-1A
S/W 12827-02 DPE

**Former Olympic Service Station
DPE Mass Extraction Event
1436 Grant Avenue
San Lorenzo, California**

ORIGINAL

Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF		W INF	
A EFF		W GAC1	
		W GAC2	
		W EFF	

Operation & Maintenance Notes
Notes:
Notify air board a minimum of 5-days prior to initial start up
Twice a month monitor/recorded LEL readings(hexane calibration) and vapor flow rate per air permit
Notify District's Industrial Waste Inspector a minimum of 24 hours prior to any sampling event (510) 276-4700
Calibrate all instruments (e.g. pH meter)
Flow meter specifications to be approved by District and include a non-resettable totalizer
Collect initial water sample after minimum of 508 gallons
Max discharge rate not to exceed 20gpm

Lab Parameters	Sampling Frequency*	Sample Location	Analytical Method
TPH	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method SW8015B
GRO	Start-up/Monthly	AINF/AEFF	EPA Method SW8015B
BTEX	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8020
MTBE	Start-up/Monthly	WINF/WGAC1/WGAC2/WEFF	EPA Method 8260
BTEX/MTBE	Start-up/Monthly	AINF/AEFF	EPA Method 8260
Lead	Start-up	WINF/WEFF	EPA 200.8
Metals (As, Cd, Cu, Hg, Ni, Se, Ag, Cr, Zn)	Start-up	WINF/WEFF	EPA 200.8
Cyanide	Start-up	WINF/WEFF	SM 4500 CN C,E
Phenols	Start-up	WINF/WEFF	EPA 420.1
pH	Start-up/Monthly	WINF, WEFF	Field measured

* Upon initial start-up of system and prior to discharge of groundwater to the sewer cleanout, obtain samples for groundwater discharge approval from the holding tank. Once approved, the system may be started for continuous operation.

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[®] 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[®] sheeting and plastic caps. The sample is then placed in a Ziploc[®] 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: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 09/20/14

Job: Olympic Station

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 5A				
Lab ID :	STR14092241-01A	TPH-P (GRO)	18,000	1,000 µg/L	09/25/14
Date Sampled	09/19/14 05:25	Methyl tert-butyl ether (MTBE)	ND	5.0 µg/L	09/25/14
		Benzene	1,900	5.0 µg/L	09/25/14
		Toluene	11	5.0 µg/L	09/25/14
		Ethylbenzene	1,200	5.0 µg/L	09/25/14
		m,p-Xylenc	830	5.0 µg/L	09/25/14
		o-Xylene	9.9	5.0 µg/L	09/25/14
Client ID :	MW 6A				
Lab ID :	STR14092241-02A	TPH-P (GRO)	28,000	2,000 µg/L	09/25/14
Date Sampled	09/19/14 05:37	Methyl tert-butyl ether (MTBE)	45	10 µg/L	09/25/14
		Benzene	3,400	10 µg/L	09/25/14
		Toluene	19	10 µg/L	09/25/14
		Ethylbenzene	2,000	10 µg/L	09/25/14
		m,p-Xylene	1,900	10 µg/L	09/25/14
		o-Xylene	ND	10 µg/L	09/25/14

Gasoline Range Organics (GRO) C4-C13

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

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.



YJG
9/29/14

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

VOC Sample Preservation Report

Work Order: STR14092241

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14092241-01A	MW 5A	Aqueous	2
14092241-02A	MW 6A	Aqueous	3

9/29/14
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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Date:
29-Sep-14

QC Summary Report

Work Order:
14092241

Method Blank

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14092505.D

Batch ID: MS09W0925B

Analysis Date: 09/25/2014 12:17

Sample ID: MBLK MS09W0925B

Units : µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 12:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	7.94		10		79	70	130			
Surr: Toluene-d8	11.5		10		115	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14092504.D

Batch ID: MS09W0925B

Analysis Date: 09/25/2014 11:32

Sample ID: GLCS MS09W0925B

Units : µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 11:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	360	50	400		90	70	130			
Surr: 1,2-Dichloroethane-d4	8.89		10		89	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.65		10		97	70	130			

Sample Matrix Spike

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14092520.D

Batch ID: MS09W0925B

Analysis Date: 09/25/2014 18:15

Sample ID: 14091941-08AGS

Units : µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 18:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1840	250	2000	93.86	87	54	143			
Surr: 1,2-Dichloroethane-d4	40.1		50		80	70	130			
Surr: Toluene-d8	53.4		50		107	70	130			
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130			

Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14092521.D

Batch ID: MS09W0925B

Analysis Date: 09/25/2014 18:39

Sample ID: 14091941-08AGSD

Units : µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 18:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2130	250	2000	93.86	102	54	143	1841	14.5(23)	
Surr: 1,2-Dichloroethane-d4	39.9		50		80	70	130			
Surr: Toluene-d8	53.8		50		108	70	130			
Surr: 4-Bromofluorobenzene	51		50		102	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.

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Date:
29-Sep-14

QC Summary Report

Work Order:
14092241

Method Blank

File ID: 14092505.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS09W0925A

Analysis Date: 09/25/2014 12:17

Sample ID: MBLK MS09W0925A

Units: µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 12:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	7.94		10		79	70	130			
Surr: Toluene-d8	11.5		10		115	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

Laboratory Control Spike

File ID: 14092503.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS09W0925A

Analysis Date: 09/25/2014 11:08

Sample ID: LCS MS09W0925A

Units: µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 11:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.92	0.5	10		89	63	137			
Benzene	9.43	0.5	10		94	70	130			
Toluene	9.91	0.5	10		99	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	9.8	0.5	10		98	65	139			
o-Xylene	9.39	0.5	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	9.37		10		94	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.84		10		88	70	130			

Sample Matrix Spike

File ID: 14092518.D

Type MS Test Code: EPA Method SW8260B

Batch ID: MS09W0925A

Analysis Date: 09/25/2014 17:28

Sample ID: 14091941-08AMS

Units: µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 17:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	114	1.3	50	63.04	102	56	140			
Benzene	59.3	1.3	50	1.09	116	67	134			
Toluene	62.1	1.3	50	0	124	38	130			
Ethylbenzene	65.5	1.3	50	0	131	70	130			M1
m,p-Xylene	60.1	1.3	50	0	120	65	139			
o-Xylene	58	1.3	50	0	116	69	130			
Surr: 1,2-Dichloroethane-d4	43		50		86	70	130			
Surr: Toluene-d8	50.9		50		102	70	130			
Surr: 4-Bromofluorobenzene	46.9		50		94	70	130			

Sample Matrix Spike Duplicate

File ID: 14092519.D

Type MSD Test Code: EPA Method SW8260B

Batch ID: MS09W0925A

Analysis Date: 09/25/2014 17:51

Sample ID: 14091941-08AMSD

Units: µg/L

Run ID: MSD_09_140925A

Prep Date: 09/25/2014 17:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	121	1.3	50	63.04	115	56	140	114	5.6(40)	
Benzene	62.6	1.3	50	1.09	123	67	134	59.29	5.5(21)	
Toluene	67.3	1.3	50	0	135	38	130	62.08	8.1(20)	M1
Ethylbenzene	70.7	1.3	50	0	141	70	130	65.53	7.7(20)	M1
m,p-Xylene	65.1	1.3	50	0	130	65	139	60.14	7.9(20)	
o-Xylene	62.4	1.3	50	0	125	69	130	57.97	7.4(20)	
Surr: 1,2-Dichloroethane-d4	41.6		50		83	70	130			
Surr: Toluene-d8	52.1		50		104	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	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:

29-Sep-14

QC Summary Report

Work Order:

14092241

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.

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 : STR14092241
Report Due By : 5:00 PM On : 29-Sep-14

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

Report Attention	Phone Number	EEmail Address
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill


PO :
 Client's COC # : 16825 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	20-Sep-14	22-Sep-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests							Sample Remarks	
				TPH/P_W	VOC_W							
STR14092241-01A	MW 5A	AQ 09/19/14 05:25	3 0 5	GAS-C	BTXE/M_C							
STR14092241-02A	MW 6A	AQ 09/19/14 05:37	3 0 5	GAS-C	BTXE/M_C							

Comments: Security seals intact. Frozen ice. Saturday delivery: kept cold and secure until login on Monday, 9/22/14. :

Logged in by:		Signature	<u>ARIADNA CHACON</u>	Print Name	<u>Alpha Analytical, Inc.</u>	Company	<u>9/22/14 8:32</u>	Date/Time
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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: Stark's
 Attn: Dobie
 Address: 9332 Canyon Pk
 City, State, Zip: Las Vegas NV
 Phone Number: 5306766000 Fax: 5306766000



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 8891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolie Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 714-388-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16825

Page # 1 of 1

Consultant/Client Info:
 Company: Stark's
 Address: _____
 City, State, Zip: _____

Job and Purchase Order Info:
 Job #: _____
 Job Name: Olympic Station
 P.O. #: _____

Report Attention/Project Manager:
 Name: SLD
 Email Address: _____
 Phone #: _____
 Cell #: _____

QC Deliverable Info:
 EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Global ID: _____
 Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR GA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MMDD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested			Remarks
							Yes	No				
0525	9/19	AQ	STR14092241-01	MW 51A	STD	3	X		ORP 8015M	BKX 826073	MYGE	
0537	)	)	02	MW 61A	STD	3	X					

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0836 (c) (2).

Sampled By: <u>[Signature]</u>	Date: <u>9-19-14</u>	Time: <u>1015</u>	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>9-19-14</u>	Time: <u>1015</u>
Relinquished by: (Signature/Affiliation): <u>[Signature]</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>9-22-14</u>	Time: <u>0904</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil **L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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.



Report Number : 88741

Date : 07/22/2014

Laboratory Results

Debbie Barr
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Subject : 2 Vapor Samples
Project Name : Olympic Station
Project Number :

Dear Ms. Barr,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Troy D. Turpen". The signature is written in a cursive style.

Troy Turpen

Project Name : **Olympic Station**

Project Number :

Sample : **Oly A SYSINF**

Matrix : Air

Lab Number : 88741-01

Sample Date :07/21/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1.0	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Toluene	< 0.70	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Ethylbenzene	< 0.70	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Total Xylenes	< 0.70	0.70	mg/m3	EPA 8260B	07/21/14 20:25
Methyl-t-butyl ether (MTBE)	1.8	0.70	mg/m3	EPA 8260B	07/21/14 20:25
TPH as Gasoline	5900	70	mg/m3	EPA 8260B	07/21/14 20:25
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	EPA 8260B	07/21/14 20:25
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	07/21/14 20:25

Sample : **Oly A EFF**

Matrix : Air

Lab Number : 88741-02

Sample Date :07/21/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	07/21/14 21:33
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	07/21/14 21:33
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	07/21/14 21:33
1,2-Dichloroethane-d4 (Surr)	98.8		% Recovery	EPA 8260B	07/21/14 21:33
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	07/21/14 21:33

Report Number : 88741

Date : 07/22/2014

QC Report : Method Blank Data

Project Name : **Olympic Station**

Project Number :

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	07/21/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	07/21/2014
1,2-Dichloroethane-d4 (Surr)	98.4		%	EPA 8260B	07/21/2014
Toluene - d8 (Surr)	100		%	EPA 8260B	07/21/2014

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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2795 2nd Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4802

SRG # / Lab No.

88741

Page 1 of 1

Send Report To: *Debbie*

Electronic Data Deliverable (EDD):

CA EDF CA WriteOn WA EIM

Email Address:

Excel EQUIS Other _____
(format)

Company: *Stratus*

Address: *3330 Cummins Pk DR*

Global ID (for CA EDF use):

Phone Number: *530 676 6004*

Fax Number: *530 676 6005*

EDD Deliverable To (Email Address):

Project #:

P.O. #:

Sampling Company: *Stratus*

Sampler Signature: *[Signature]*

Project Name: *Olympic Station*

Invoice To: *Stratus*

Project Address: *San Lorenzo*

Sampling	# of Containers	# Preserved	Matrix			
			Water	Soil	Air	Other (specify)
	40 ml VOA					
	Sleeve					
	Poly					
	Glass					
	Tedlar					
	HCl					
	HNO ₃					
	None					

Sample Identification

Date	Time
<i>7/21/14</i>	<i>0730</i>
<i>7/21/14</i>	<i>0720</i>

Sample Identification	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil	Air	Other (specify)	Gas (8260)	Gas (8015)	Diesel	Motor Oil	Other (specify):	TPH	8260B	524	Metals	SPECIAL	Other	For Lab Use Only
<i>Oly A SYS INF</i>	<i>7/21/14</i>	<i>0730</i>					X		X				X		X					X	X					<i>01</i>
<i>Oly A EPI</i>	<i>7/21/14</i>	<i>0720</i>				X			X				X		X					X	X					<i>02</i>

Chain-of-Custody Record and Analysis Request

TPH	8260B	524	Metals	SPECIAL	Other
<input checked="" type="checkbox"/> Gas (8260) <input type="checkbox"/> Other (specify):	ETX: Benzene Toluene Ethylbenzene Total Xylenes MTBE 5 Oxygenates: MTBE DIPE ETBE TAME TBA 7 Oxygenates (5 Oxygenates plus): Ethanol Methanol Lead Scavengers: 1,2 DCA 1,2 EDB Halogenated Volatile Organic Compounds (former 8010 list) Volatile Organic Compounds Full List Volatile Organics by EPA Method 524.2	Metals Group (Method:): <input type="checkbox"/> CAM 17 <input type="checkbox"/> LUFT 5 Individual Metals (list and enter method):	<input type="checkbox"/> Nitrate as N <input type="checkbox"/> Nitrite as N <input type="checkbox"/> Ferrous Iron <input type="checkbox"/> Nitrate as NO ₃ <input type="checkbox"/> Nitrite as NO ₂ Chromium VI by EPA 7199		

Relinquished by (signature/affiliation): *[Signature] Stratus*
 Date & Time: *7/21/14 1046*

Received by (signature/affiliation): _____
 Date & Time: _____

Remarks and Special Instructions (composite, filter, MS/MSD, return samples, Silica Gel, etc.):
24 HR TAT ON EPI STD ON OTHERS

Relinquished by (signature/affiliation): _____
 Date & Time: _____

Received by (signature/affiliation): _____
 Date & Time: _____

Relinquished by (signature/affiliation): _____
 Date & Time: _____

Received by Kiff Analytical (signature): *Michelle Sanchez*
 Date & Time: *07/21/14 1046*

Turnaround Time (TAT - Circle One):
 Standard 4-Day 3-Day 2-Day 1-Day Other: _____
 TAT in business days. Surcharge may apply. TAT for subcontracted work may vary.

Laboratory Results

Debbie Barr
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Subject : 2 Vapor Samples
Project Name : Olympic Station
Project Number :

Dear Ms. Barr,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Troy Turpen



Report Number : 88839

Date : 08/05/2014

Project Name : **Olympic Station**

Project Number :

Sample : **SYS INF A Oly**

Matrix : Air

Lab Number : 88839-01

Sample Date :08/04/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	4.0	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Toluene	< 0.50	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Ethylbenzene	0.71	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Total Xylenes	< 0.50	0.50	mg/m3	EPA 8260B	08/04/14 17:32
Methyl-t-butyl ether (MTBE)	1.4	0.50	mg/m3	EPA 8260B	08/04/14 17:32
TPH as Gasoline	3800	50	mg/m3	EPA 8260B	08/04/14 17:32
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	08/04/14 17:32
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	08/04/14 17:32

Sample : **EFF A Oly**

Matrix : Air

Lab Number : 88839-02

Sample Date :08/04/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	08/04/14 14:52
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	08/04/14 14:52
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	08/04/14 14:52
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	08/04/14 14:52
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	08/04/14 14:52

Report Number : 88839

Date : 08/05/2014

QC Report : Method Blank Data

Project Name : **Olympic Station**

Project Number :

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	08/04/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	08/04/2014
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	08/04/2014
Toluene - d8 (Surr)	99.1		%	EPA 8260B	08/04/2014

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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2795 2nd Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4802

SRG # / Lab No.

88839

Page 1 of 1

Send Report To: *Debbie*

Electronic Data Deliverable (EDD):

Email Address:

CA EDF CA WriteOn WA EIM
 Excel EQUIS Other _____
(format)

Company: *Stratus*

Address: *3330 Cameron Pl DR*

Global ID (for CA EDF use):

Phone Number: *5306766004*

Fax Number: *5306766004*

EDD Deliverable To (Email Address):

Project #:

P.O. #:

Sampling Company: *Stratus*

Sampler Signature: *CHILL*

Project Name: *Eagle GAS*

Invoice To: *Stratus*

Project Address: *SAN LORENZO*

Sampling		# of Containers				# Preserved			Matrix				
Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil	Air	Other (specify)

Sample Identification

Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO ₃	None	Water	Soil	Air	Other (specify)
------	------	-----------	--------	------	-------	--------	-----	------------------	------	-------	------	-----	-----------------

SYS INF A OLY
EFF A OLY

<i>8/14</i>	<i>0710</i>				<i>X</i>			<i>X</i>				<i>X</i>	
<i>8/14</i>	<i>0736</i>				<i>X</i>			<i>X</i>				<i>X</i>	

Relinquished by (signature/affiliation): *CHILL Stratus*

Date & Time: *8/14 1300*

Received by (signature/affiliation): _____
 Date & Time: _____

Remarks and Special Instructions (composite, filter, MS/MSD, return samples, Silica Gel, etc.):
24HR TAT ON EFF
STD TAT ON SYS INF

Relinquished by (signature/affiliation): _____

Date & Time: _____

Received by (signature/affiliation): _____
 Date & Time: _____

Relinquished by (signature/affiliation): _____

Date & Time: _____

Received by Kiff Analytical (signature): *Michelle Spence*
 Date & Time: *8/24/14 1304*

Turnaround Time (TAT - Circle One):
 Standard 4-Day 3-Day 2-Day 1-Day Other: _____
 TAT in business days. Surcharge may apply. TAT for subcontracted work may vary.

For Lab Use Only

Chain-of-Custody Record and Analysis Request

TPH	8260B	524	Metals	SPECIAL	Other
<input checked="" type="checkbox"/> Gas (8260) <input type="checkbox"/> Gas (8015) <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other (specify):	MTBE 5 Oxygenates: MTBE DIPE ETBE TAME TBA 7 Oxygenates (5 Oxygenates plus): Ethanol Methanol Lead Scavengers: 1,2 DCA 1,2 EDB Halogenated Volatile Organic Compounds (former 8010 list) Volatile Organic Compounds Full List Volatile Organics by EPA Method 524.2	Metals Group (Method: _____); <input type="checkbox"/> CAM 17 <input type="checkbox"/> LUFT 5 Individual Metals (list and enter method):	<input type="checkbox"/> Nitrate as N <input type="checkbox"/> Nitrite as N <input type="checkbox"/> Ferrous Iron <input type="checkbox"/> Nitrate as NO ₃ <input type="checkbox"/> Nitrite as NO ₂ Chromium VI by EPA 7199		



SAMPLE RECEIPT CHECKLIST

SRG #: 88839

Sample Receipt	Initials/Date: MAS 08/14/14	Storage Time: 1304	Sample Login	Initials/Date: MAS 08/04/14
TAT: <input type="checkbox"/> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Split <input type="checkbox"/> None		Method of Receipt: <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Over-the-counter <input type="checkbox"/> Shipped		
Temp °C	<input checked="" type="checkbox"/> N/A	Therm ID	Time	Coolant present <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Water <input type="checkbox"/> Temp Excursion
For Shipments Only: Cooler Receipt Initials/Date/Time:			Custody Seals <input type="checkbox"/> N/A <input type="checkbox"/> Intact <input type="checkbox"/> Broken	

Chain-of-Custody:	Yes	No
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	COC	Labels	Discrepancies:
Sample ID	X	X	
Project ID	X		
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?			<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Samples:	N/A	Yes	No
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?	X		
In-house Analysis:	N/A	Yes	No
Are preservatives acceptable?	X		
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments: Kiff tag #s: 1024397-01, -20. TJB
 080414 1335
 SIMF to confirm project ID. Sample ID suffixes do not match project history. MAS 080414 1356

Receipt Details:

Matrix	Container Type	# of Containers
AR	Tedlar	2

CS Required:

Proceed With Analysis: YES NO Init/Date: _____

Client Communication: _____

Page 5 of 5



Report Number : 89089

Date : 09/09/2014

Laboratory Results

Debbie Barr
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Subject : 2 Vapor Samples
Project Name : Olympic Station
Project Number :

Dear Ms. Barr,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC.

Kiff Analytical, LLC is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Troy D. Turpen". The signature is written in a cursive style with a large, prominent "T" and "D".

Troy Turpen



Report Number : 89089

Date : 09/09/2014

Project Name : **Olympic Station**

Project Number :

Sample : **Oly A SYS INF**

Matrix : Air

Lab Number : 89089-01

Sample Date :09/08/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	0.45	0.20	mg/m3	EPA 8260B	09/08/14 23:15
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 23:15
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	09/08/14 23:15
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 23:15
Methyl-t-butyl ether (MTBE)	0.80	0.20	mg/m3	EPA 8260B	09/08/14 23:15
TPH as Gasoline	410	20	mg/m3	EPA 8260B	09/08/14 23:15
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	09/08/14 23:15
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	09/08/14 23:15

Sample : **Oly A EFF**

Matrix : Air

Lab Number : 89089-02

Sample Date :09/08/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
Ethylbenzene	< 0.25	0.25	mg/m3	EPA 8260B	09/08/14 18:13
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	09/08/14 18:13
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	09/08/14 18:13
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	09/08/14 18:13
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	09/08/14 18:13

Report Number : 89089

Date : 09/09/2014

QC Report : Method Blank Data

Project Name : **Olympic Station**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	09/08/2014
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	09/08/2014
Toluene - d8 (Surr)	100		%	EPA 8260B	09/08/2014
Benzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Ethylbenzene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Toluene	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Total Xylenes	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
Methyl-t-butyl ether (MTBE)	< 0.20	0.20	mg/m3	EPA 8260B	09/08/2014
TPH as Gasoline	< 20	20	mg/m3	EPA 8260B	09/08/2014
1,2-Dichloroethane-d4 (Surr)	99.6		%	EPA 8260B	09/08/2014
Toluene - d8 (Surr)	97.3		%	EPA 8260B	09/08/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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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: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 07/21/14

Job: Olympic

Mercury EPA Method 245.1

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: INF W Oly Lab ID: STR14072144-01A Mercury (Hg) Date Sampled 07/21/14 07:43	ND	0.20 µg/L	07/22/14 10:38	07/22/14 17:07

ND = Not Detected

Reported in micrograms per Liter, per client request.



Roger Scholl *Randy Gardner* *Walter Hinchman*

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

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✓
7/23/14

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

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 07/21/14

Job: Olympic

Metals by ICPMS
EPA Method 200.8

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: INF W Oly				
Lab ID : STR14072144-01A	Chromium (Cr)	ND	10 µg/L	07/22/14 12:18 07/22/14 17:55
Date Sampled 07/21/14 07:43	Nickel (Ni)	ND	10 µg/L	07/22/14 12:18 07/22/14 17:55
	Copper (Cu)	ND	20 µg/L	07/22/14 12:18 07/22/14 17:55
	Zinc (Zn)	ND	100 µg/L	07/22/14 12:18 07/22/14 17:55
	Arsenic (As)	ND	5.0 µg/L	07/22/14 12:18 07/22/14 17:55
	Selenium (Se)	5.8	5.0 µg/L	07/22/14 12:18 07/22/14 17:55
	Silver (Ag)	ND	5.0 µg/L	07/22/14 12:18 07/22/14 17:55
	Cadmium (Cd)	ND	2.0 µg/L	07/22/14 12:18 07/22/14 17:55
	Lead (Pb)	6.7	5.0 µg/L	07/22/14 12:18 07/22/14 17:55

This replaces the report signed 7/23/14 due to a change in the analyte list, due to lab error.

ND = Not Detected

Reported in micrograms per Liter, per client request.



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7/28/14

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Olympic

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005

Alpha Analytical Number: STR14072144-01A
Client I.D. Number: INF W Oly

Sampled: 07/21/14 07:43
Received: 07/21/14
Extracted: 07/22/14 12:20
Analyzed: 07/22/14

Phenols EPA Method SW8270C - SIM

	Compound	Concentration	Reporting Limit
1	Pentachlorophenol	ND	5.0 µg/L
2	2,3,4,6-Tetrachlorophenol	ND	1.0 µg/L

ND = Not Detected

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7/23/14
Report Date

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 07/21/14

Job: Olympic

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 : INF W Oly				
Lab ID : STR14072144-01A	TPH-P (GRO)	50 µg/L	07/23/14	07/23/14
Date Sampled 07/21/14 07:43	Methyl tert-butyl ether (MTBE)	0.50 µg/L	07/23/14	07/23/14
	Benzene	0.50 µg/L	07/23/14	07/23/14
	Toluene	0.50 µg/L	07/23/14	07/23/14
	Ethylbenzene	0.50 µg/L	07/23/14	07/23/14
	m,p-Xylene	0.50 µg/L	07/23/14	07/23/14
	o-Xylene	0.50 µg/L	07/23/14	07/23/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.



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PS

7/23/14

Report Date

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VOC Sample Preservation Report

Work Order: STR14072144

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14072144-01A	INF W Oly	Aqueous	2

7/23/14
Report Date



Alpha Analytical, Inc.

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Date:
13-Aug-14

QC Summary Report

Work Order:
14072144

Method Blank		Type	Test Code: EPA Method 245.1							
File ID: 1		MBLK	Batch ID: 33272t					Analysis Date: 07/22/2014 17:03		
Sample ID: MB-33272	Units: µg/L		Run ID: MANUAL_140722B					Prep Date: 07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	ND	0.2								

Laboratory Control Spike		Type	Test Code: EPA Method 245.1							
File ID: 2		LCS	Batch ID: 33272t					Analysis Date: 07/22/2014 17:05		
Sample ID: LCS-33272	Units: µg/L		Run ID: MANUAL_140722B					Prep Date: 07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	10.6	0.2	10		106	85	115			

Sample Matrix Spike		Type	Test Code: EPA Method 245.1							
File ID: 4		MS	Batch ID: 33272t					Analysis Date: 07/22/2014 17:10		
Sample ID: 14072144-01AMS	Units: µg/L		Run ID: MANUAL_140722B					Prep Date: 07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	9.87	0.2	10	0	99	70	130			

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method 245.1							
File ID: 5		MSD	Batch ID: 33272t					Analysis Date: 07/22/2014 17:12		
Sample ID: 14072144-01AMSD	Units: µg/L		Run ID: MANUAL_140722B					Prep Date: 07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	10.2	0.2	10	0	102	70	130	9.87	3.3(20)	

Comments:

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Date:
13-Aug-14

QC Summary Report

Work Order:
14072144

Method Blank

Type MBLK Test Code: EPA Method 200.8

File ID: 1

Batch ID: 33274

Analysis Date: 07/22/2014 14:33

Sample ID: MB-33274

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	10								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	20								
Zinc (Zn)	ND	100								
Arsenic (As)	ND	5								
Selenium (Se)	ND	5								
Silver (Ag)	ND	5								
Cadmium (Cd)	ND	2								
Lead (Pb)	ND	5								

Laboratory Control Spike

Type LCS Test Code: EPA Method 200.8

File ID: 3

Batch ID: 33274

Analysis Date: 07/22/2014 14:38

Sample ID: LCS-33274

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49	10	50		98	85	115			
Nickel (Ni)	49.1	10	50		98	85	115			
Copper (Cu)	50.5	20	50		101	85	115			
Zinc (Zn)	518	100	500		104	85	115			
Arsenic (As)	48.8	5	50		98	85	115			
Selenium (Se)	49.2	5	50		98	85	115			
Silver (Ag)	45.8	5	50		92	85	115			
Cadmium (Cd)	47.8	2	50		96	85	115			
Lead (Pb)	47.4	5	50		95	85	115			

Sample Matrix Spike

Type MS Test Code: EPA Method 200.8

File ID: 5

Batch ID: 33274

Analysis Date: 07/22/2014 14:43

Sample ID: 14072145-01AMS

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.2	10	50	0	98	70	130			
Nickel (Ni)	50.3	10	50	0	101	70	130			
Copper (Cu)	49.4	20	50	0	99	70	130			
Zinc (Zn)	539	100	500	0	108	70	130			
Arsenic (As)	57.9	5	50	7.716	100	70	130			
Selenium (Se)	55	5	50	0	110	70	130			
Silver (Ag)	46.3	5	50	0	93	70	130			
Cadmium (Cd)	47.6	2	50	0	95	70	130			
Lead (Pb)	47.7	5	50	0	95	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 200.8

File ID: 6

Batch ID: 33274

Analysis Date: 07/22/2014 14:46

Sample ID: 14072145-01AMSD

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.5	10	50	0	99	70	130	49.18	0.7(20)	
Nickel (Ni)	50.2	10	50	0	100	70	130	50.25	0.0(20)	
Copper (Cu)	50	20	50	0	100	70	130	49.42	1.1(20)	
Zinc (Zn)	539	100	500	0	108	70	130	539.2	0.0(20)	
Arsenic (As)	57.5	5	50	7.716	99.6	70	130	57.91	0.7(20)	
Selenium (Se)	52.4	5	50	0	105	70	130	55.01	4.8(20)	
Silver (Ag)	46	5	50	0	92	70	130	46.31	0.7(20)	
Cadmium (Cd)	48.6	2	50	0	97	70	130	47.63	2.0(20)	
Lead (Pb)	49	5	50	0	98	70	130	47.72	2.6(20)	



Alpha Analytical, Inc.

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Date:
13-Aug-14

QC Summary Report

Work Order:
14072144

Comments:

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Reported in micrograms per Liter, per client request.



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Date:
13-Aug-14

QC Summary Report

Work Order:
14072144

Method Blank

Type MBLK Test Code: EPA Method SW8270C - SIM

File ID:			Batch ID: 33273	Analysis Date: 08/01/2014 16:09						
Sample ID: MBLK-32273	Units : µg/L		Run ID: MSD_16_140722A	Prep Date: 08/01/2014 16:09						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Pentachlorophenol	ND									
2,3,4,6-Tetrachlorophenol	ND									
Surr: 2-Fluorobiphenyl	0.739		2.5		30	12	143			
Surr: 4-Terphenyl-d14	1.51		2.5		60	30	159			

Comments:

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Date:
13-Aug-14

QC Summary Report

Work Order:
14072144

Method Blank

File ID: 14072307.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 14:41

Sample ID: MBLK MS12W0723B

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 14:41

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.4		10		104	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.56		10		86	70	130			

Laboratory Control Spike

File ID: 14072305.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 13:49

Sample ID: GLCS MS12W0723B

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 13:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	406	50	400		101	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.88		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.21		10		92	70	130			

Sample Matrix Spike

File ID: 14072319.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 19:00

Sample ID: 14072240-01AGS

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 19:00

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1960	250	2000		0 98	54	143			
Surr: 1,2-Dichloroethane-d4	55.1		50		110	70	130			
Surr: Toluene-d8	48		50		96	70	130			
Surr: 4-Bromofluorobenzene	44.6		50		89	70	130			

Sample Matrix Spike Duplicate

File ID: 14072320.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 19:21

Sample ID: 14072240-01AGSD

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 19:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1940	250	2000		0 97	54	143	1963	1.2(23)	
Surr: 1,2-Dichloroethane-d4	55		50		110	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	44.5		50		89	70	130			

Comments:

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Date:
13-Aug-14

QC Summary Report

Work Order:
14072144

Method Blank

File ID: 14072307.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 14:41

Sample ID: MBLK MS12W0723A

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 14:41

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10.4		10		104	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.56		10		86	70	130			

Laboratory Control Spike

File ID: 14072306.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 14:11

Sample ID: LCS MS12W0723A

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 14:11

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.72	0.5	10		87	63	137			
Benzene	8.93	0.5	10		89	70	130			
Toluene	9.07	0.5	10		91	80	120			
Ethylbenzene	9.17	0.5	10		92	80	120			
m,p-Xylene	10	0.5	10		100	65	139			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	10.7		10		107	70	130			
Surr: Toluene-d8	9.9		10		99	70	130			
Surr: 4-Bromofluorobenzene	8.78		10		88	70	130			

Sample Matrix Spike

File ID: 14072317.D

Type MS Test Code: EPA Method SW8260B

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 18:17

Sample ID: 14072240-01AMS

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 18:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.1	1.3	50		76	58	140			
Benzene	43.6	1.3	50		87	67	134			
Toluene	42.6	1.3	50		85	38	130			
Ethylbenzene	44.2	1.3	50		88	70	130			
m,p-Xylene	45.4	1.3	50		91	65	139			
o-Xylene	47.9	1.3	50		96	69	130			
Surr: 1,2-Dichloroethane-d4	58.9		50		118	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	70	130			

Sample Matrix Spike Duplicate

File ID: 14072318.D

Type MSD Test Code: EPA Method SW8260B

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 18:38

Sample ID: 14072240-01AMSD

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 18:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.5	1.3	50		77	58	140	38.07	1.1(40)	
Benzene	45.4	1.3	50		91	67	134	43.6	4.0(21)	
Toluene	44.4	1.3	50		89	38	130	42.55	4.1(20)	
Ethylbenzene	46.2	1.3	50		92	70	130	44.21	4.4(20)	
m,p-Xylene	47.9	1.3	50		96	65	139	45.4	5.4(20)	
o-Xylene	50.1	1.3	50		100	69	130	47.92	4.5(20)	
Surr: 1,2-Dichloroethane-d4	56.7		50		113	70	130			
Surr: Toluene-d8	46.8		50		94	70	130			
Surr: 4-Bromofluorobenzene	42.8		50		86	70	130			



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Date:
13-Aug-14

QC Summary Report

Work Order:
14072144

Comments:

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CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 23, 2014

CLS Work Order #: CXG0894
COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR14072144

Enclosed are the results of analyses for samples received by the laboratory on 07/21/14 16:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave., Suite 21 Sparks, NV 89431	Project: STR14072144 Project Number: STR14072144 Project Manager: Reyna Vallejo	CLS Work Order #: CXG0894 COC #:
--	---	-------------------------------------

Alpha Analytical, Inc.

CHAIN OF CUSTODY RECORD

RUSH

Report Date: 07/23/14

Time: 10:59 AM

Method: STR14072144
 This document is the Work Order number and it is used to track the sample from the time it is received at the laboratory until it is analyzed and the results are reported. It is the responsibility of the person who receives the sample to ensure that the sample is properly handled and that the results are reported to the correct person.

Sample ID: [Blank]
 New York State Office of General Services

Operator: [Blank]
 Date: [Blank]
 Time: [Blank]

Signature: [Blank]
 Title: [Blank]

Accepted by: [Blank]

Sample ID	Sample Description	Quantity	Received By	Received Date	Received Time	Received Location

Comments

Reference to:	
Reference to:	

CALIFORNIA LABORATORY SERVICES

Page 2 of 4

07/23/14 10:59

Alpha Analytical, Inc.-Sparks
255 Glendale Ave., Suite 21
Sparks, NV 89431

Project: STR14072144
Project Number: STR14072144
Project Manager: Reyna Vallejo

CLS Work Order #: CXG0894
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
STR14072144-01A (INF W Oly) (CXG0894-01) Aqueous Sampled: 07/21/14 07:43 Received: 07/21/14 16:00										
Cyanide (total)	ND	0.10		mg/L	1	CX05002	07/22/14	07/22/14	SM4500-CNE	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

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07/23/14 10:59

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR14072144 Project Number: STR14072144 Project Manager: Reyna Vallejo	CLS Work Order #: CXG0894 COC #:
--	---	-------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CX05002 - General Preparation										
Blank (CX05002-BLK1) Prepared & Analyzed: 07/22/14										
Cyanide (total)	ND	0.0050	mg/L							
LCS (CX05002-BS1) Prepared & Analyzed: 07/22/14										
Cyanide (total)	0.0824	0.0050	mg/L	0.100		82	75-125			
LCS Dup (CX05002-BSD1) Prepared & Analyzed: 07/22/14										
Cyanide (total)	0.0852	0.0050	mg/L	0.100		85	75-125	3	25	
Matrix Spike (CX05002-MS1) Source: CXG0642-01 Prepared & Analyzed: 07/22/14										
Cyanide (total)	0.0835	0.0050	mg/L	0.100	ND	84	75-125			
Matrix Spike Dup (CX05002-MSD1) Source: CXG0642-01 Prepared & Analyzed: 07/22/14										
Cyanide (total)	0.0850	0.0050	mg/L	0.100	ND	85	75-125	2	25	

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CALIFORNIA LABORATORY SERVICES

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07/23/14 10:59

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR14072144
Project Number: STR14072144
Project Manager: Reyna Vallejo

CLS Work Order #: CXG0894
COC #:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH ^{Page 1 of 1}

WorkOrder : STR14072144

Report Due By : 5:00 PM On : 23-Jul-14

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

Client:

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

Report Attention	Phone Number	E-Mail Address
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

Cooler Temp	Samples Received	Date Printed
0 °C	21-Jul-14	22-Jul-14

PO :

Client's COC # : 16592 Job : Olympic

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

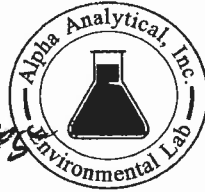
Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests							Sample Remarks	
				Alpha	Sub	TAT	245_1_W	CYANIDE_TOTAL_W	METALS_D_W	PHENOLS_SIM_W	TPH/P_W	VOC_W			
STR14072144-01A	INF W Oly	AQ	07/21/14 07:43	7	1	2	Hg	TOTAL CYANIDE	Pb, As, Cd, Cu, Ni, Se, Ag, Cr, Zn	PHENOLS	GAS-C	BTXE/M_C			

Comments: Prelogged on 7/21/14 in order to sub Cyanide to CLS by Sac office. Remaining samples received on 7/22/14. Security seals intact. Frozen ice. Chain split into separate workorders due to different TAT. 24hr TAT. :

Signature	Print Name	Company	Date/Time
	ALMADINA CHACON	Alpha Analytical, Inc.	7/22/14 1030

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

Company: Stantec
 Attn: Dabbie
 Address: 3530 Cummins Pk Dr
 City, State, Zip: Channahon IL
 Phone Number: 815-766-0000 Fax: 815-766-0005



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
 Northern CA: 8891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0408
 Phone: 916-366-9089
 Phone: 714-388-2801
 Phone: 775-388-7043
 Phone: 702-281-4848

16592

Page # 1 of 1

Company: Stantec Job and Purchase Order Info: Job #: Olympic Report Attention/Project Manager: J. Inoué QC Deliverable Info: EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Address: _____ Job Name: _____ Email Address: _____ Global ID: _____
 City, State, Zip: _____ P.O. #: _____ Phone #: _____ Cell #: _____ Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested							Remarks
							Yes	No	GRD, TPH	Ptex	MTBE	Leak 2008	metals 2008	SAH500 CTS E	Cyanide		Phenols 428
0743	7/21	AQ	51004012144-01A	INF W Oly	48	8	X	X	X	X	X	X	X	X	metals	
0754	}	}		GAL1 W Oly	STD	3	X	X	X						As, Pb, Cu	
0747				GAL2 W Oly	STD	3	X	X	X							Hg, Ni, Se
0900				EFF W Oly	24	8	X	X	X	X	X	X	X	X			Hg, Cr, Zn

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. MAC 448.0636 (c) (2).

Sampled by: <u>G. Hill</u>	Date: <u>7-21-14</u>	Time: <u>1120</u>	Received by: (Signature/Affiliation): <u>M. Messias</u>	Date: <u>7-21-14</u>	Time: <u>1120</u>
Relinquished by: (Signature/Affiliation): <u>Christina Stuster</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>7/22/14</u>	Time: <u>0951</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil *L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other
 NOTE: Samples are discarded 60 days after sample receipt 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.



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: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 07/22/14

Job: Olympiac

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 : GAC1 W Oly				
Lab ID : STR14072240-01A	TPH-P (GRO)	ND	50 µg/L	07/23/14
Date Sampled 07/21/14 07:54	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/23/14
	Benzene	ND	0.50 µg/L	07/23/14
	Toluene	ND	0.50 µg/L	07/23/14
	Ethylbenzene	ND	0.50 µg/L	07/23/14
	m,p-Xylene	ND	0.50 µg/L	07/23/14
	o-Xylene	ND	0.50 µg/L	07/23/14
Client ID : GAC2 W Oly				
Lab ID : STR14072240-02A	TPH-P (GRO)	ND	50 µg/L	07/23/14
Date Sampled 07/21/14 07:47	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	07/23/14
	Benzene	ND	0.50 µg/L	07/23/14
	Toluene	ND	0.50 µg/L	07/23/14
	Ethylbenzene	ND	0.50 µg/L	07/23/14
	m,p-Xylene	ND	0.50 µg/L	07/23/14
	o-Xylene	ND	0.50 µg/L	07/23/14

Gasoline Range Organics (GRO) C4-C13

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.



PS
7/29/14

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.

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

VOC Sample Preservation Report

Work Order: STR14072240

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14072240-01A	GAC1 W Oly	Aqueous	2
14072240-02A	GAC2 W Oly	Aqueous	2

7/29/14
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:
29-Jul-14

QC Summary Report

Work Order:
14072240

Method Blank

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

File ID: 14072307.D

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 14:41

Sample ID: MBLK MS12W0723B

Units : µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 14:41

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	10.4		10		104	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.56		10		86	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14072305.D

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 13:49

Sample ID: GLCS MS12W0723B

Units : µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 13:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	406	50	400		101	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.88		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.21		10		92	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14072319.D

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 19:00

Sample ID: 14072240-01AGS

Units : µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 19:00

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1960	250	2000		0	98	54	143		
Surr: 1,2-Dichloroethane-d4	55.1		50		110	70	130			
Surr: Toluene-d8	48		50		96	70	130			
Surr: 4-Bromofluorobenzene	44.6		50		89	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14072320.D

Batch ID: MS12W0723B

Analysis Date: 07/23/2014 19:21

Sample ID: 14072240-01AGSD

Units : µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 19:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1940	250	2000		0	97	54	143	1963	1.2(23)
Surr: 1,2-Dichloroethane-d4	55		50		110	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	44.5		50		89	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:
29-Jul-14

QC Summary Report

Work Order:
14072240

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 14072307.D

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 14:41

Sample ID: MBLK MS12W0723A

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 14:41

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	10.4		10		104	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.56		10		86	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 14072306.D

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 14:11

Sample ID: LCS MS12W0723A

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 14:11

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.72	0.5	10		87	63	137			
Benzene	8.93	0.5	10		89	70	130			
Toluene	9.07	0.5	10		91	80	120			
Ethylbenzene	9.17	0.5	10		92	80	120			
m,p-Xylene	10	0.5	10		100	65	139			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	10.7		10		107	70	130			
Surr: Toluene-d8	9.9		10		99	70	130			
Surr: 4-Bromofluorobenzene	8.78		10		88	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 14072317.D

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 18:17

Sample ID: 14072240-01AMS

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 18:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.1	1.3	50		0	76	56	140		
Benzene	43.6	1.3	50		0	87	67	134		
Toluene	42.6	1.3	50		0	85	38	130		
Ethylbenzene	44.2	1.3	50		0	88	70	130		
m,p-Xylene	45.4	1.3	50		0	91	65	139		
o-Xylene	47.9	1.3	50		0	96	69	130		
Surr: 1,2-Dichloroethane-d4	58.9		50		118	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 14072318.D

Batch ID: MS12W0723A

Analysis Date: 07/23/2014 18:38

Sample ID: 14072240-01AMSD

Units: µg/L

Run ID: MSD_12_140723A

Prep Date: 07/23/2014 18:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	38.5	1.3	50		0	77	56	140	38.07	1.1(40)
Benzene	45.4	1.3	50		0	91	67	134	43.6	4.0(21)
Toluene	44.4	1.3	50		0	89	38	130	42.55	4.1(20)
Ethylbenzene	46.2	1.3	50		0	92	70	130	44.21	4.4(20)
m,p-Xylene	47.9	1.3	50		0	96	65	139	45.4	5.4(20)
o-Xylene	50.1	1.3	50		0	100	69	130	47.92	4.5(20)
Surr: 1,2-Dichloroethane-d4	56.7		50		113	70	130			
Surr: Toluene-d8	46.8		50		94	70	130			
Surr: 4-Bromofluorobenzene	42.8		50		86	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:
29-Jul-14

QC Summary Report

Work Order:
14072240

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 : STR14072240
Report Due By : 5:00 PM On : 29-Jul-14

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

Report Attention	Phone Number	Email Address
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :

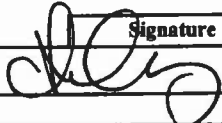
Client's COC # : 16592 Job : Olympic

Cooler Temp	Samples Received	Date Printed
0 °C	22-Jul-14	22-Jul-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests								Sample Remarks	
				TPH/P_W	VOC_W								
STR14072240-01A	GAC1 W Oly	AQ 07/21/14 07:54	3 0 5	GAS-C	BTXE/M_C								
STR14072240-02A	GAC2 W Oly	AQ 07/21/14 07:47	3 0 5	GAS-C	BTXE/M_C								

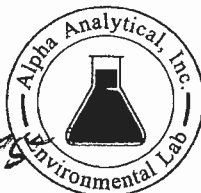
Comments: Security seals intact. Frozen ice. Chain split into separate workorders due to different TAT. :

Signature	Print Name	Company	Date/Time
	ARIADNA CHACON	Alpha Analytical, Inc.	7/22/14 1049

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-Tadlar B-Brass P-Plastic OT-Other

Billing Information:
 Company: Stantec
 Attn: Dabbie
 Address: 3530 Cummings Pl Dr
 City, State, Zip: Carlsbad, CA
 Phone Number: 530-266-0004 Fax: 530-266-6005



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 8991 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamotte Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0408
 Phone: 916-368-9089
 Phone: 714-386-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16592

Page # 1 of 1

Consultant/ Client Info: Job and Purchase Order Info: Report Attention/Project Manager: QC Deliverable Info:

Company: Stantec Job #: _____ Name: J. Williams EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Address: _____ Job Name: Olympic Email Address: _____ Global ID: _____
 City, State, Zip: _____ P.O. #: _____ Phone #: _____ Data Validation Packages: III or IV _____
 Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested								Remarks
							Yes	No	GRO, TPH	BTEX	MTBE	Leak 2008	metals 2008	SAH500 CYSE	Cyanide	Phenols 420	
0743	7/14	AQ		INF W Oly	48	8	X	X	X	X	X	X	X	X	X	metals	
0754				GAL1 W Oly	STD	3	X	X	X	X						As, Pb, Cu	
0747				GAL2 W Oly	STD	3	X	X	X	X						Hg, Ni, Se	
0910		AQ		EFF W Oly	24	8	X	X	X	X	X	X	X	X	X	Ag, Cr, Zn	

ADDITIONAL INSTRUCTIONS:
 I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0636 (c) (2).

Sampled By: CHILL
 Relinquished by: (Signature/Affiliation): Stanford Date: 7-21-14 Time: 1120
 Received by: (Signature/Affiliation): Menascat Date: 7-21-14 Time: 1120
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): _____ Date: 7/22/14 Time: 1041

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil ** L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other
 NOTE: Samples are discarded 60 days after sample receipt 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.



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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 07/21/14

Job: Olympic

Mercury EPA Method 245.1

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: EFFW Oly				
Lab ID: STR14072145-01A Mercury (Hg)	ND	0.20 µg/L	07/22/14 17:17	07/22/14 17:17
Date Sampled 07/21/14 09:00				

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
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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.



[Signature]
7/22/14

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.

Report Date



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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 07/21/14

Job: Olympic

Metals by ICPMS
EPA Method 200.8

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: EFW Oly				
Lab ID: STR14072145-01A	Chromium (Cr)	ND	10 µg/L	07/22/14 12:18 07/22/14 14:35
Date Sampled 07/21/14 09:00	Nickel (Ni)	ND	10 µg/L	07/22/14 12:18 07/22/14 14:35
	Copper (Cu)	ND	20 µg/L	07/22/14 12:18 07/22/14 14:35
	Zinc (Zn)	ND	100 µg/L	07/22/14 12:18 07/22/14 14:35
	Arsenic (As)	7.7	5.0 µg/L	07/22/14 12:18 07/22/14 14:35
	Selenium (Se)	ND	5.0 µg/L	07/22/14 12:18 07/22/14 14:35
	Silver (Ag)	ND	5.0 µg/L	07/22/14 12:18 07/22/14 14:35
	Cadmium (Cd)	ND	2.0 µg/L	07/22/14 12:18 07/22/14 14:35
	Lead (Pb)	ND	5.0 µg/L	07/22/14 12:18 07/22/14 14:35

This replaces the report signed 7/22/14 due to a change in the analyte list, due to lab error.

ND = Not Detected

Reported in micrograms per Liter, per client request.



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7/28/14

Report Date



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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861
Job: Olympic

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005

Alpha Analytical Number: STR14072145-01A
Client I.D. Number: EFFW Oly

Sampled: 07/21/14 09:00
Received: 07/21/14
Extracted: 07/22/14 12:20
Analyzed: 07/22/14

Phenols EPA Method SW8270C - SIM

	Compound	Concentration	Reporting Limit
1	Pentachlorophenol	ND	5.0 µg/L
2	2,3,4,6-Tetrachlorophenol	ND	1.0 µg/L

ND = Not Detected



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Cameron Park, CA 956828861

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 07/21/14

Job: Olympic

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: EFFW Oly				
Lab ID: STR14072145-01A	TPH-P (GRO)	ND	07/22/14	07/22/14
Date Sampled 07/21/14 09:00	Methyl tert-butyl ether (MTBE)	ND	07/22/14	07/22/14
	Benzene	ND	07/22/14	07/22/14
	Toluene	ND	07/22/14	07/22/14
	Ethylbenzene	ND	07/22/14	07/22/14
	m,p-Xylene	ND	07/22/14	07/22/14
	o-Xylene	ND	07/22/14	07/22/14

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.



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PS
7/22/14

Report Date



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VOC Sample Preservation Report

Work Order: STR14072145

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14072145-01A	EFFW Oly	Aqueous	4

7/22/14
Report Date



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Date:
13-Aug-14

QC Summary Report

Work Order:
14072145

Method Blank		Type	Test Code: EPA Method 245.1							
File ID:	1	Batch ID:	33272t				Analysis Date:	07/22/2014 17:03		
Sample ID:	MB-33272	Units :	µg/L	Run ID:	MANUAL_140722B		Prep Date:	07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	ND	0.2								
Laboratory Control Spike		Type	Test Code: EPA Method 245.1							
File ID:	2	Batch ID:	33272t				Analysis Date:	07/22/2014 17:05		
Sample ID:	LCS-33272	Units :	µg/L	Run ID:	MANUAL_140722B		Prep Date:	07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	10.6	0.2	10		106	85	115			
Sample Matrix Spike		Type	Test Code: EPA Method 245.1							
File ID:	4	Batch ID:	33272t				Analysis Date:	07/22/2014 17:10		
Sample ID:	14072144-01AMS	Units :	µg/L	Run ID:	MANUAL_140722B		Prep Date:	07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	9.87	0.2	10	0	99	70	130			
Sample Matrix Spike Duplicate		Type	Test Code: EPA Method 245.1							
File ID:	5	Batch ID:	33272t				Analysis Date:	07/22/2014 17:12		
Sample ID:	14072144-01AMSD	Units :	µg/L	Run ID:	MANUAL_140722B		Prep Date:	07/22/2014 10:38		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Mercury (Hg)	10.2	0.2	10	0	102	70	130	9.87	3.3(20)	

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.

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Date:
13-Aug-14

QC Summary Report

Work Order:
14072145

Method Blank

Type MBLK Test Code: EPA Method 200.8

File ID: 1

Batch ID: 33274

Analysis Date: 07/22/2014 14:33

Sample ID: MB-33274

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	10								
Nickel (Ni)	ND	10								
Copper (Cu)	ND	20								
Zinc (Zn)	ND	100								
Arsenic (As)	ND	5								
Selenium (Se)	ND	5								
Silver (Ag)	ND	5								
Cadmium (Cd)	ND	2								
Lead (Pb)	ND	5								

Laboratory Control Spike

Type LCS Test Code: EPA Method 200.8

File ID: 3

Batch ID: 33274

Analysis Date: 07/22/2014 14:38

Sample ID: LCS-33274

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49	10	50		98	85	115			
Nickel (Ni)	49.1	10	50		98	85	115			
Copper (Cu)	50.5	20	50		101	85	115			
Zinc (Zn)	518	100	500		104	85	115			
Arsenic (As)	48.8	5	50		98	85	115			
Selenium (Se)	49.2	5	50		98	85	115			
Silver (Ag)	45.8	5	50		92	85	115			
Cadmium (Cd)	47.8	2	50		96	85	115			
Lead (Pb)	47.4	5	50		95	85	115			

Sample Matrix Spike

Type MS Test Code: EPA Method 200.8

File ID: 5

Batch ID: 33274

Analysis Date: 07/22/2014 14:43

Sample ID: 14072145-01AMS

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.2	10	50		0 98	70	130			
Nickel (Ni)	50.3	10	50		0 101	70	130			
Copper (Cu)	49.4	20	50		0 99	70	130			
Zinc (Zn)	539	100	500		0 108	70	130			
Arsenic (As)	57.9	5	50	7.716	100	70	130			
Selenium (Se)	55	5	50		0 110	70	130			
Silver (Ag)	46.3	5	50		0 93	70	130			
Cadmium (Cd)	47.6	2	50		0 95	70	130			
Lead (Pb)	47.7	5	50		0 95	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 200.8

File ID: 6

Batch ID: 33274

Analysis Date: 07/22/2014 14:46

Sample ID: 14072145-01AMSD

Units: µg/L

Run ID: MANUAL_140722A

Prep Date: 07/22/2014 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	49.5	10	50		0 99	70	130	49.18	0.7(20)	
Nickel (Ni)	50.2	10	50		0 100	70	130	50.25	0.0(20)	
Copper (Cu)	50	20	50		0 100	70	130	49.42	1.1(20)	
Zinc (Zn)	539	100	500		0 108	70	130	539.2	0.0(20)	
Arsenic (As)	57.5	5	50	7.716	99.6	70	130	57.91	0.7(20)	
Selenium (Se)	52.4	5	50		0 105	70	130	55.01	4.8(20)	
Silver (Ag)	46	5	50		0 92	70	130	46.31	0.7(20)	
Cadmium (Cd)	48.6	2	50		0 97	70	130	47.63	2.0(20)	
Lead (Pb)	49	5	50		0 98	70	130	47.72	2.6(20)	



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Date:
13-Aug-14

QC Summary Report

Work Order:
14072145

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.



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Date:
13-Aug-14

QC Summary Report

Work Order:
14072145

Method Blank

Type MBLK Test Code: EPA Method SW8270C - SIM

File ID:			Batch ID: 33273		Analysis Date: 08/01/2014 15:09					
Sample ID: MBLK-32273	Units : µg/L		Run ID: MSD_16_140722A		Prep Date: 08/01/2014 15:09					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Pentachlorophenol	ND			5						
2,3,4,6-Tetrachlorophenol	ND			1						
Surr: 2-Fluorobiphenyl	0.739		2.5		30	12	143			
Surr: 4-Terphenyl-d14	1.51		2.5		60	30	159			

Comments:

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Date:
13-Aug-14

QC Summary Report

Work Order:
14072145

Method Blank

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

File ID: 14072206.D

Batch ID: MS15W0722B

Analysis Date: 07/22/2014 13:26

Sample ID: MBLK MS15W0722B

Units : µg/L

Run ID: MSD_15_140722A

Prep Date: 07/22/2014 13:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.03		10		90	70	130			
Surr: Toluene-d8	9.64		10		96	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: 14072204.D

Batch ID: MS15W0722B

Analysis Date: 07/22/2014 12:32

Sample ID: GLCS MS15W0722B

Units : µg/L

Run ID: MSD_15_140722A

Prep Date: 07/22/2014 12:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	460	50	400		115	70	130			
Surr: 1,2-Dichloroethane-d4	8.87		10		89	70	130			
Surr: Toluene-d8	9.35		10		94	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Comments:

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Reported in micrograms per Liter, per client request.



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Date:
13-Aug-14

QC Summary Report

Work Order:
14072145

Method Blank

File ID: 14072205.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS15W0722A

Analysis Date: 07/22/2014 13:26

Sample ID: MBLK MS15W0722A

Units: µg/L

Run ID: MSD_15_140722A

Prep Date: 07/22/2014 13:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.03		10		90	70	130			
Surr: Toluene-d8	9.64		10		96	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike

File ID: 14072202.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS15W0722A

Analysis Date: 07/22/2014 11:35

Sample ID: LCS MS15W0722A

Units: µg/L

Run ID: MSD_15_140722A

Prep Date: 07/22/2014 11:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.8	0.5	10		88	63	137			
Benzene	10.6	0.5	10		106	70	130			
Toluene	8.82	0.5	10		88	80	120			
Ethylbenzene	8.43	0.5	10		84	80	120			
m,p-Xylene	9.21	0.5	10		92	65	139			
o-Xylene	8.67	0.5	10		87	70	130			
Surr: 1,2-Dichloroethane-d4	8.85		10		89	70	130			
Surr: Toluene-d8	9.4		10		94	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Sample Matrix Spike

File ID: 14072220.D

Type MS Test Code: EPA Method SW8260B

Batch ID: MS15W0722A

Analysis Date: 07/22/2014 18:45

Sample ID: 14071611-02AMS

Units: µg/L

Run ID: MSD_15_140722A

Prep Date: 07/22/2014 18:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	48.5	1.3	50	0	97	56	140			
Benzene	56.9	1.3	50	0	114	67	134			
Toluene	42.5	1.3	50	0	85	38	130			
Ethylbenzene	41.2	1.3	50	0	82	70	130			
m,p-Xylene	45	1.3	50	0	90	65	139			
o-Xylene	42.9	1.3	50	0	86	69	130			
Surr: 1,2-Dichloroethane-d4	53		50		106	70	130			
Surr: Toluene-d8	44.1		50		88	70	130			
Surr: 4-Bromofluorobenzene	51.2		50		102	70	130			

Sample Matrix Spike Duplicate

File ID: 14072221.D

Type MSD Test Code: EPA Method SW8260B

Batch ID: MS15W0722A

Analysis Date: 07/22/2014 19:07

Sample ID: 14071611-02AMSD

Units: µg/L

Run ID: MSD_15_140722A

Prep Date: 07/22/2014 19:07

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	50.5	1.3	50	0	101	56	140	48.45	4.2(40)	
Benzene	57.1	1.3	50	0	114	67	134	56.92	0.3(21)	
Toluene	42.2	1.3	50	0	84	38	130	42.48	0.7(20)	
Ethylbenzene	40.9	1.3	50	0	82	70	130	41.18	0.8(20)	
m,p-Xylene	45.1	1.3	50	0	90	65	139	45.01	0.3(20)	
o-Xylene	42.6	1.3	50	0	85	69	130	42.87	0.6(20)	
Surr: 1,2-Dichloroethane-d4	52.7		50		105	70	130			
Surr: Toluene-d8	44		50		88	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.6	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:
13-Aug-14

QC Summary Report

Work Order:
14072145

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.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 22, 2014

CLS Work Order #: CXG0893

COC #:

Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR14072145

Enclosed are the results of analyses for samples received by the laboratory on 07/21/14 16:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'James Liang', with a stylized flourish at the end.

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Page 2 of 4

07/22/14 12:26

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR14072145 Project Number: STR14072145 Project Manager: Reyna Vallejo	CLS Work Order #: CXG0893 COC #:
--	---	-------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR14072145-01A (EEFW Oly) (CXG0893-01) Aqueous Sampled: 07/21/14 09:00 Received: 07/21/14 16:00									
Cyanide (total)	ND	0.10	mg/L	1	CX05002	07/22/14	07/22/14	SM4500-CN E	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Page 3 of 4

07/22/14 12:26

Alpha Analytical, Inc.-Sparks 255 Glendale Ave., Suite 21 Sparks, NV 89431	Project: STR14072145 Project Number: STR14072145 Project Manager: Reyna Vallejo	CLS Work Order #: CXG0893 COC #:
--	---	-------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CX05002 - General Preparation										
Blank (CX05002-BLK1)										
										Prepared & Analyzed: 07/22/14
Cyanide (total)	ND	0.0050	mg/L							
LCS (CX05002-BS1)										
										Prepared & Analyzed: 07/22/14
Cyanide (total)	0.0824	0.0050	mg/L	0.100		82	75-125			
LCS Dup (CX05002-BSD1)										
										Prepared & Analyzed: 07/22/14
Cyanide (total)	0.0852	0.0050	mg/L	0.100		85	75-125	3	25	
Matrix Spike (CX05002-MS1)										
										Source: CXG0642-01 Prepared & Analyzed: 07/22/14
Cyanide (total)	0.0835	0.0050	mg/L	0.100	ND	84	75-125			
Matrix Spike Dup (CX05002-MSD1)										
										Source: CXG0642-01 Prepared & Analyzed: 07/22/14
Cyanide (total)	0.0850	0.0050	mg/L	0.100	ND	85	75-125	2	25	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Page 4 of 4

07/22/14 12:26

Alpha Analytical, Inc.-Sparks
255 Glendale Ave., Suite 21
Sparks, NV 89431

Project: STR14072145
Project Number: STR14072145
Project Manager: Reyna Vallejo

CLS Work Order #: CXG0893
COC #:

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH

WorkOrder : STR14072145
Report Due By : 5:00 PM On : 22-Jul-14

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

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

Report Attention	Phone Number	E-Mail Address
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

Cooler Temp	Samples Received	Date Printed
0 °C	21-Jul-14	22-Jul-14

PO :
Client's COC # : 16582 Job : Olympic

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

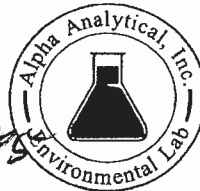
Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha	No. of Bottles Sub	No. of Bottles TAT	Requested Tests						Sample Remarks	
						245_1_W	CYANIDE TOTAL_W	METALS_D W	PHENOLS SIM_W	TPH/P_W	VOC_W		
STR14072145-01A	EFFW Oly	AQ 07/21/14 09:00	7	1	1	Hg	TOTAL CYANIDE	Pb, As, Cd, Cu, Ni, Se, Ag, Cr, Zn	PHENOLS	GAS-C	BTXE/M_C		

Comments: Prelogged on 7/21/14 in order to sub Cyanide to CLS by Sac office. Remaining samples received on 7/22/14. Security seals intact. Frozen ice. Chain split into separate workorders due to different TAT. ASAP TAT.

Signature	Print Name	Company	Date/Time
	ARMADNA CHACON	Alpha Analytical, Inc.	7/22/14 1028

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: Stratus
 Attn: Dabbie
 Address: 3530 Cummins Pl DR
 City, State, Zip: Chandler AZ
 Phone Number: 5306766094 Fax: 5306766095



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 714-388-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16592

Page # 1 of 1

Consultant/ Client Info: Job and Purchase Order Info: Report Attention/Project Manager: QC Deliverable Info:

Company: Stratus Job # Olympic Name: J. Miller EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Address: _____ Job Name: _____ Email Address: _____
 City, State, Zip: _____ P.O. #: _____ Phone #: _____ Global ID: _____
 Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other _____ Cell #: _____ Data Validation Packages: III or IV

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested										Remarks
							Yes	No	GRD, TPH	BTEX	MTBE	Lead 200.8	metals 200.8	metals 200.8	metals 200.8	metals 200.8	metals 200.8	metals 200.8	
0743	7/21	AQ		INT W Oly	48	8	X	X	X	X	X	X	X	X	X	X	X	metals	
0754				GAL1 W Oly	STD	3	X	X	X	X								As, Cd, Cu	
0747				GAL2 W Oly	STD	3	X	X	X	X								Hg, Ni, Se	
0900		AQ		EFF W Oly	24	8	X	X	X	X	X	X	X	X	X	X	X	Hg, Cr, Zn	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0636 (c) (2).

Sampled By: <u>B. Hill</u>	Date: <u>7-21-14</u>	Time: <u>1120</u>	Received by: (Signature/Affiliation): <u>M. Gausson</u>	Date: <u>7-21-14</u>	Time: <u>1120</u>
Relinquished by: (Signature/Affiliation): <u>Christina Steuter</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>7/22/14</u>	Time: <u>1009</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil **L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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.



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: Debbie Barr
Phone: (530) 676-6000
Fax: (530) 676-6005
Date Received : 07/29/14

Job: Olympic Station

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: EFF W Oly				
Lab ID: STR14072940-01A	TPH-P (GRO)	ND	07/30/14	07/30/14
Date Sampled 07/29/14 05:55	Methyl tert-butyl ether (MTBE)	ND	07/30/14	07/30/14
	Benzene	ND	07/30/14	07/30/14
	Toluene	ND	07/30/14	07/30/14
	Ethylbenzene	ND	07/30/14	07/30/14
	m,p-Xylene	ND	07/30/14	07/30/14
	o-Xylene	ND	07/30/14	07/30/14

Gasoline Range Organics (GRO) C4-C13

This replaces the report signed 7/30/14 due to a change in the Date Sampled, due to lab error.

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.



[Signature]

8/1/14

Report Date

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.



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR14072940

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14072940-01A	EFF W Oly	Aqueous	2

7/30/14
Report Date

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

August 01, 2014

CLS Work Order #: CXG1161
COC #:

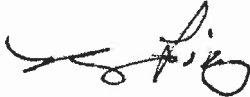
Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: STR14072940

Enclosed are the results of analyses for samples received by the laboratory on 07/29/14 11:34. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Page 1 of 4

08/01/14 09:33

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR14072940 Project Number: STR14072940 Project Manager: Reyna Vallejo	CLS Work Order #: CXG1161 COC #:
--	---	-------------------------------------

Alpha Analytical, Inc.
255 Glendale Avenue
Suite 21
Sparks, Nevada 89431-5778
Phone: (775) 355-1044
Fax: (775) 355-0436

Subcontractor:
C.S. Labs
3246 Fitzgerald Rd.
Rancho Cordova, CA 95742

SUB CHAIN-OF-CUSTODY RECORD

Work Order: STR14072940
*Please reference the Work Order number on all reports and invoices.
*Also please include the dates of analysis and detection limits.
Please send the report to Alpha Analytical (Sparks).
Attention To Reyna Vallejo (reyna@alpha-analytical.com).

TEL: (916) 638-7501
FAX: (916) 638-4510
Acct #

AMENDED
Report Due By: 5:00 PM
On: 30-Jul-14

Required QC:
Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Sampled by: C. Hill

01-Aug-14

Alpha Sample ID	Client's Sample ID	Matrix	Collection Date	Type(s) of Device		Requested Tests		Sample Comments
				Primary	Other	EPA Method 40C		
STR14072940-01A	EP W Dy	Aqueous	07/29/14 08/05	1-HDPE 16.504 (C)		Field Collected at C.B.4 @ Term 2 - 07/29/14		

Comments: Amended in order to change sample date.

	Date/Time		Date/Time
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

Page 2 of 4

08/01/14 09:33

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: STR14072940
Project Number: STR14072940
Project Manager: Reyna Vallejo

CLS Work Order #: CXG1161
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STR14072940-01A (EFF W Oly) (CXG1161-01) Aqueous Sampled: 07/29/14 05:55 Received: 07/29/14 11:34									
Phenolics	0.023	0.010	mg/L	1	CX05179	07/29/14	07/29/14	EPA 420.1	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

Page 3 of 4

08/01/14 09:33

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: STR14072940 Project Number: STR14072940 Project Manager: Reyna Vallejo	CLS Work Order #: CXG1161 COC #:
--	---	-------------------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CX05179 - General Preparation										
Blank (CX05179-BLK1) Prepared & Analyzed: 07/29/14										
Phenolics	ND	0.010	mg/L							
LCS (CX05179-BS1) Prepared & Analyzed: 07/29/14										
Phenolics	0.214	0.010	mg/L	0.200		107	80-120			
LCS Dup (CX05179-BSD1) Prepared & Analyzed: 07/29/14										
Phenolics	0.213	0.010	mg/L	0.200		106	80-120	0.7	25	
Matrix Spike (CX05179-MS1) Source: CXG1010-01 Prepared & Analyzed: 07/29/14										
Phenolics	0.204	0.010	mg/L	0.200	0.00810	98	75-125			
Matrix Spike Dup (CX05179-MSD1) Source: CXG1010-01 Prepared & Analyzed: 07/29/14										
Phenolics	0.204	0.010	mg/L	0.200	0.00810	98	75-125	0	30	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

Page 4 of 4

08/01/14 09:33

Alpha Analytical, Inc.-Sparks
255 Glendale Ave., Suite 21
Sparks, NV 89431

Project: STR14072940
Project Number: STR14072940
Project Manager: Reyna Vallejo

CLS Work Order #: CXG1161
COC #:

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CA

WorkOrder : STR14072940
Report Due By : 5:00 PM On : 30-Jul-14

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

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

Report Attention	Phone Number	Email Address
Debbie Barr	(530) 676-6000 x	dbarr@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

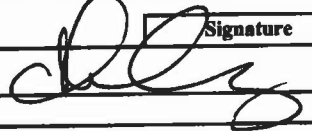
Cooler Temp	Samples Received	Date Printed
3 °C	29-Jul-14	01-Aug-14

PO :
Client's COC # : 16332 Job : Olympic Station

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests						Sample Remarks					
				PHENOLS SIM_W	TPH/P_W	VOC_W									
STR14072940-01A	EFF W Oly	AQ	07/29/14 05:55	3	2	1	Pentachlorop henol/2,3,4,6 Tetrachlorop henol	GAS-C	BTXE/M_C						

Comments: Prelogged on 7/29/14 in order for Sac office to sub Phenols to CLS. Remaining samples received on 7/30/14. Security seals intact. Frozen ice. ASAP TAT. Amended on 8/01/14 in order to correct login error on sampling date. AC :

Signature	Print Name	Company	Date/Time
	ALIANA CHAN	Alpha Analytical, Inc.	8/01/14 CAC

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

CA

RUSH

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

WorkOrder : STR14072940
 Report Due By : 5:00 PM On : 30-Jul-14

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

Report Attention	Phone Number	E-Mail Address
Debbie Barr	(530) 676-6000 x	dbarr@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :
 Client's COC # : 16332 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
3 °C	29-Jul-14	30-Jul-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests							Sample Remarks		
				Alpha	Sub	TAT	PHENOLS SIM_W	TPHP_W	VOC_W							
STR14072940-01A	EFF W Oly	AQ	07/24/14 05:55	3	2	1	Pentachlorop henol/2,3,4,6 Tetrachlorop henol	GAS-C	BTXE/M_C							

Comments: Prelogged on 7/29/14 in order for Sac office to sub Phenols to CLS. Remaining samples received on 7/30/14. Security seals intact. Frozen ice. ASAP TAT. :

Signature	Print Name	Company	Date/Time
	ARIADNA CHACON	Alpha Analytical, Inc.	7/30/14 0947

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



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: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 08/19/14

Job: Olympic Station

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 : INF W Oly				
Lab ID : STR14081941-01A	TPH-P (GRO)	50 µg/L	08/20/14	08/20/14
Date Sampled 08/18/14 07:15	Methyl tert-butyl ether (MTBE)	0.50 µg/L	08/20/14	08/20/14
	Benzene	0.50 µg/L	08/20/14	08/20/14
	Toluene	0.50 µg/L	08/20/14	08/20/14
	Ethylbenzene	0.50 µg/L	08/20/14	08/20/14
	m,p-Xylene	0.50 µg/L	08/20/14	08/20/14
	o-Xylene	0.50 µg/L	08/20/14	08/20/14

Gasoline Range Organics (GRO) C4-C13

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.



gjh/RS
8/21/14

Report Date

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.



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR14081941

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14081941-01A	INF W Oly	Aqueous	2

8/21/14
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:
25-Aug-14

QC Summary Report

Work Order:
14081941

Method Blank

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

File ID: C:\HPCHEM\MS10\DATA\140820\14082009.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 14:29

Sample ID: MBLK MS10W0820B

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 14:29

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.57		10		96	70	130			
Surr: Toluene-d8	11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene	11		10		110	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\140820\14082008.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 14:08

Sample ID: GLCS MS10W0820B

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 14:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	405	50	400		101	70	130			
Surr: 1,2-Dichloroethane-d4	9.63		10		96	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	11.7		10		117	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\140820\14082020.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 18:36

Sample ID: 14081941-01AGS

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 18:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	6620	250	4000	174.9	161	54	143			M1
Surr: 1,2-Dichloroethane-d4	57.4		50		115	70	130			
Surr: Toluene-d8	47.2		50		94	70	130			
Surr: 4-Bromofluorobenzene	58.9		50		118	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS10\DATA\140820\14082021.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 18:57

Sample ID: 14081941-01AGSD

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 18:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	5850	250	4000	174.9	142	54	143	6618	12.2(23)	
Surr: 1,2-Dichloroethane-d4	54.2		50		108	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	60.5		50		121	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.

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

Reported in micrograms per Liter, per client request.



Alpha Analytical, Inc.

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Date:
25-Aug-14

QC Summary Report

Work Order:
14081941

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS10\DATA\140820\14082009.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 14:29

Sample ID: MBLK MS10W0820A

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 14:29

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.57		10		96	70	130			
Surr: Toluene-d8	11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene	11		10		110	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS10\DATA\140820\14082007.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 13:26

Sample ID: LCS MS10W0820A

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 13:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10	0.5	10		100	63	137			
Benzene	9.33	0.5	10		93	70	130			
Toluene	10	0.5	10		100	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.1	0.5	10		111	65	139			
o-Xylene	10.9	0.5	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	11.2		10		112	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS10\DATA\140820\14082018.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 17:54

Sample ID: 14081941-01AMS

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 17:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	126	1.3	50	39.41	173	56	140			M1
Benzene	59.9	1.3	50	3.35	113	67	134			
Toluene	54.5	1.3	50	0	109	38	130			
Ethylbenzene	59.2	1.3	50	0.97	117	70	130			
m,p-Xylene	60.6	1.3	50	0	121	65	139			
o-Xylene	59.6	1.3	50	0	119	69	130			
Surr: 1,2-Dichloroethane-d4	63.3		50		127	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	51.1		50		102	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS10\DATA\140820\14082019.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 18:15

Sample ID: 14081941-01AMSD

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 18:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	120	1.3	50	39.41	162	56	140	126.1	4.7(40)	M1
Benzene	57.1	1.3	50	3.35	107	67	134	59.89	4.8(21)	
Toluene	51.5	1.3	50	0	103	38	130	54.45	5.6(20)	
Ethylbenzene	54.6	1.3	50	0.97	107	70	130	59.23	8.2(20)	
m,p-Xylene	56.7	1.3	50	0	113	65	139	60.55	6.8(20)	
o-Xylene	54.4	1.3	50	0	109	69	130	59.63	9.2(20)	
Surr: 1,2-Dichloroethane-d4	62.1		50		124	70	130			
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	55.5		50		111	70	130			



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
25-Aug-14

QC Summary Report

Work Order:
14081941

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.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH

WorkOrder : STR14081941
Report Due By : 5:00 PM On : 21-Aug-14

Alpha Analytical, Inc.

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

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

Report Attention	Phone Number	E-Mail Address
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

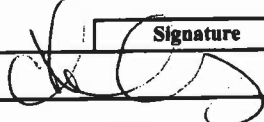
PO :
Client's COC # : 16335 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	19-Aug-14	19-Aug-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests								Sample Remarks			
				TPH/P_W	VOC_W										
STR14081941-01A	INF W Oly	AQ	08/18/14 07:15	4	0	2	GAS-C	BTXE/M_C							

Comments: Security seals intact. Frozen ice. Chain split into three different work orders due to different TAT. 48hr TAT. :

Logged in by:	Signature	Print Name	Company	Date/Time
		ALLADNA CATALON	Alpha Analytical, Inc.	8/19/14 07:41

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

Company: Stratco's
 Attn: Debbie
 Address: 5330 Cameron Pl #12
 City, State, Zip: Cameron Pl #12
 Phone Number: 530622 6006 Fax: 530622 6006



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0408
 Phone: 916-366-9089
 Phone: 714-388-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16335

Page # 1 of 1

Consultant/ Client Info: Stratco's Job and Purchase Order Info: Job # _____ Job Name: Olympic Station Report Attention/Project Manager: Trevor QC Deliverable Info: EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Company: _____ Address: _____ City, State, Zip: _____ P.O. #: _____ Name: _____ Email Address: _____ Phone #: _____ Call #: _____
 Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other _____ Data Validation Packages: III or IV

Time Sampled (H:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested			Remarks
							Yes	No	TPH SW815	BTEX 8120	MTBE 8120	
0755	8/18	AQ		IWF W Oly	72	4-V	X	X	X	X		
0710	)	)		GAC1 W Oly	STD	4-V	X	X	X	X		
0705	)	)		GAC2 W Oly	STD	4-V	X	X	X	X		
0700	(	AQ		EFF W Oly	24	4-V	X	X	X	X		

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0636 (c) (2).

Sampled By: AHILL
 Relinquished by: (Signature/Affiliation): [Signature] Date: 8-18-14 Time: 1100
 Received by: (Signature/Affiliation): Maryssa T Date: 8-18-14 Time: 1100
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): [Signature] Date: 8/19/14 Time: 0926
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): _____ Date: _____ Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil **L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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.



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: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 08/19/14

Job: Olympic Station

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 : GAC1 W Oly				
Lab ID : STR14081942-01A	TPH-P (GRO)	ND	08/20/14	08/20/14
Date Sampled 08/18/14 07:10	Methyl tert-butyl ether (MTBE)	ND	08/20/14	08/20/14
	Benzene	ND	08/20/14	08/20/14
	Toluene	ND	08/20/14	08/20/14
	Ethylbenzene	ND	08/20/14	08/20/14
	m,p-Xylenc	ND	08/20/14	08/20/14
	o-Xylene	ND	08/20/14	08/20/14
Client ID : GAC2 W Oly				
Lab ID : STR14081942-02A	TPH-P (GRO)	ND	08/20/14	08/20/14
Date Sampled 08/18/14 07:05	Methyl tert-butyl ether (MTBE)	ND	08/20/14	08/20/14
	Benzene	ND	08/20/14	08/20/14
	Toluene	ND	08/20/14	08/20/14
	Ethylbenzene	ND	08/20/14	08/20/14
	m,p-Xylene	ND	08/20/14	08/20/14
	o-Xylene	ND	08/20/14	08/20/14

Gasoline Range Organics (GRO) C4-C13

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.

8/26/14

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

VOC Sample Preservation Report

Work Order: STR14081942

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14081942-01A	GAC1 W Oly	Aqueous	2
14081942-02A	GAC2 W Oly	Aqueous	2

8/26/14
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:
26-Aug-14

QC Summary Report

Work Order:
14081942

Method Blank

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

File ID: C:\HPCHEM\MS10\DATA\140820\14082009.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 14:29

Sample ID: **MBLK MS10W0820B**

Units : µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 14:29

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.57		10		96	70	130			
Surr: Toluene-d8	11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene	11		10		110	70	130			

Laboratory Control Spike

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

File ID: C:\HPCHEM\MS10\DATA\140820\14082008.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 14:08

Sample ID: **GLCS MS10W0820B**

Units : µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 14:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	405	50	400		101	70	130			
Surr: 1,2-Dichloroethane-d4	9.63		10		96	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	11.7		10		117	70	130			

Sample Matrix Spike

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

File ID: C:\HPCHEM\MS10\DATA\140820\14082020.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 18:36

Sample ID: **14081941-01AGS**

Units : µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 18:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	6620	250	4000	174.9	161	54	143			M1
Surr: 1,2-Dichloroethane-d4	57.4		50		115	70	130			
Surr: Toluene-d8	47.2		50		94	70	130			
Surr: 4-Bromofluorobenzene	58.9		50		118	70	130			

Sample Matrix Spike Duplicate

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

File ID: C:\HPCHEM\MS10\DATA\140820\14082021.D

Batch ID: MS10W0820B

Analysis Date: 08/20/2014 18:57

Sample ID: **14081941-01AGSD**

Units : µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 18:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	5850	250	4000	174.9	142	54	143	6618	12.2(23)	
Surr: 1,2-Dichloroethane-d4	54.2		50		108	70	130			
Surr: Toluene-d8	50.3		50		101	70	130			
Surr: 4-Bromofluorobenzene	60.5		50		121	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.

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

Reported in micrograms per Liter, per client request,



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Date:
26-Aug-14

QC Summary Report

Work Order:
14081942

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140820\14082009.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 14:29

Sample ID: MBLK MS10W0820A

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 14:29

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.57		10		96	70	130			
Surr: Toluene-d8	11.2		10		112	70	130			
Surr: 4-Bromofluorobenzene	11		10		110	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140820\14082007.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 13:26

Sample ID: LCS MS10W0820A

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 13:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10	0.5	10		100	63	137			
Benzene	9.33	0.5	10		93	70	130			
Toluene	10	0.5	10		100	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
m,p-Xylene	11.1	0.5	10		111	65	139			
o-Xylene	10.9	0.5	10		109	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	11.2		10		112	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140820\14082018.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 17:54

Sample ID: 14081941-01AMS

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 17:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	126	1.3	50	39.41	173	56	140			M1
Benzene	59.9	1.3	50	3.35	113	67	134			
Toluene	54.5	1.3	50	0	109	38	130			
Ethylbenzene	59.2	1.3	50	0.97	117	70	130			
m,p-Xylene	60.6	1.3	50	0	121	65	139			
o-Xylene	59.6	1.3	50	0	119	69	130			
Surr: 1,2-Dichloroethane-d4	63.3		50		127	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	51.1		50		102	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS10\DATA\140820\14082019.D

Batch ID: MS10W0820A

Analysis Date: 08/20/2014 18:15

Sample ID: 14081941-01AMSD

Units: µg/L

Run ID: MSD_10_140820A

Prep Date: 08/20/2014 18:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	120	1.3	50	39.41	162	56	140	126.1	4.7(40)	M1
Benzene	57.1	1.3	50	3.35	107	67	134	59.89	4.8(21)	
Toluene	51.5	1.3	50	0	103	38	130	54.45	5.6(20)	
Ethylbenzene	54.6	1.3	50	0.97	107	70	130	59.23	8.2(20)	
m,p-Xylene	56.7	1.3	50	0	113	65	139	60.55	6.6(20)	
o-Xylene	54.4	1.3	50	0	109	69	130	59.63	9.2(20)	
Surr: 1,2-Dichloroethane-d4	62.1		50		124	70	130			
Surr: Toluene-d8	48.6		50		97	70	130			
Surr: 4-Bromofluorobenzene	55.5		50		111	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:
26-Aug-14

QC Summary Report

Work Order:
14081942

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.

CHAIN-OF-CUSTODY RECORD

CA

WorkOrder : STR14081942

Report Due By : 5:00 PM On : 26-Aug-14

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

Report Attention **Trevor Hartwell** Phone Number **(530) 676-6004** x **thartwell@stratusinc.net**
 EMail Address

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

EDD Required : Yes

Sampled by : C. Hill

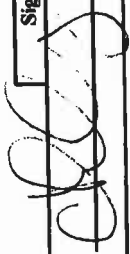
Cooler Temp **0 °C** Samples Received **19-Aug-14** Date Printed **19-Aug-14**

PO : Client's COC # : 16335 Job : Olympic Station

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

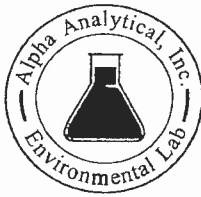
Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests				Sample Remarks	
				Alpha	Sub TAT	TPHP_W	VOC_W				
STR14081942-01A	GAC1 W Oly	AQ	08/18/14 07:10	4	0 5						
STR14081942-02A	GAC2 W Oly	AQ	08/18/14 07:05	4	0 5						

Comments: Security seals intact. Frozen ice. Chain split into three different work orders due to different TAT.

Logged in by:  Signature **ALANA O'HARA** Print Name **Alpha Analytical, Inc.** Company **Alpha Analytical, Inc.** Date/Time **8/19/14 09:54**

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: Stankov's
 Attn: Debbie
 Address: 3330 Cameron Pl D12
 City, State, Zip: Cameron Pl CA
 Phone Number: 5306261004 Fax: 5306261005



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 714-366-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16335

Page # 1 of 1

Consultant/Client Info: Stankov's Job and Purchase Order Info: Olympic Station Report Attention/Project Manager: Trevor QC Deliverable Info:
 Company: _____ Job # _____ Name: _____ EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Address: _____ Job Name: _____ Email Address: _____
 City, State, Zip: _____ P.O. #: _____ Phone #: _____ Global ID: _____
 Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other Cell #: _____ Data Validation Packages: III or IV

Time Sampled (HHMM)	Date Sampled (MMDD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Analysis Requested			Remarks
							Field Filtered?	TPH SW0015	BTEX 8120		MTBE 8200
Yes	No									
0705	8/18	AR		IWF W Oly	72	4-V	X	X	X	
0710			SR14081942-01X	GAC1 W Oly	STD	4-V	✓	✓	✓	
0705			SR214081942-02	GAC2 W Oly	STD	4-V	✓	✓	✓	
0700		AR		EFF W Oly	24	4-V	✓	✓	✓	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0636 (c) (2).

Sampled By: <u>AMILL</u>	Date: <u>8-18-14</u>	Time: <u>1100</u>	Received by: (Signature/Affiliation): <u>Maryssa T</u>	Date: <u>8-18-14</u>	Time: <u>1100</u>
Relinquished by: (Signature/Affiliation): <u>Stankov's</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>8/19/14</u>	Time: <u>0920</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil ** L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other
 NOTE: Samples are discarded 60 days after sample receipt 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.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 08/19/14

Job: Olympic Station

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 :	EFF W Oly				
Lab ID :	STR14081940-01A	TPH-P (GRO)	ND	50 µg/L	08/19/14
Date Sampled	08/18/14 07:00	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	08/19/14
		Benzene	ND	0.50 µg/L	08/19/14
		Toluene	ND	0.50 µg/L	08/19/14
		Ethylbenzene	ND	0.50 µg/L	08/19/14
		m,p-Xylene	ND	0.50 µg/L	08/19/14
		o-Xylene	ND	0.50 µg/L	08/19/14

Gasoline Range Organics (GRO) C4-C13

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.

8/19/14

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

VOC Sample Preservation Report

Work Order: STR14081940

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14081940-01A	EFF W Oly	Aqueous	2

8/19/14
Report Date

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Page: 1 of 1

RUSH

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

WorkOrder : STR14081940
 Report Due By : 5:00 PM On : 19-Aug-14

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

Report Attention	Phone Number	E-Mail Address
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :
 Client's COC # : 16335 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	19-Aug-14	19-Aug-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Alpha Sub TAT	Requested Tests								Sample Remarks	
				TPHP_W	VOC_W								
STR14081940-01A	EFF W Oly	AQ 08/18/14 07:00	4 0 0	GAS-C	BTXE/M_C								

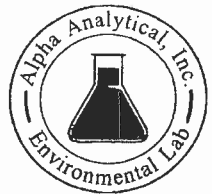
Comments: Security seals intact. Frozen ice. Chain split into three different work orders due to different TAT. ASAP TAT. :

Signature	Print Name	Company	Date/Time
	Ariadna Chacow	Alpha Analytical, Inc.	8/19/14 0933

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

Company: STANLEY'S
 Attn: Debbie
 Address: 3330 Cameron Pl D12
 City, State, Zip: Cameron Pl CA
 Phone Number: 530 672 6004 Fax: 530 672 6005



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
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 Phone: 714-386-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16335

Page # 1 of 1

Consultant/Client Info: STANLEY'S
 Job and Purchase Order Info: Job # _____ Job Name: Olympic Station P.O. #: _____
 Report Attention/Project Manager: Name: Trevor Email Address: _____ Phone #: _____ Cell #: _____
 QC Deliverable Info: EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Global ID: _____
 Data Validation Packages: III or IV _____

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested			Remarks
							Yes	No	TPH SW8015	BTEX 8120	MTBE 8260	
0705	8-18	AQ		IWF W Oly	72	4-V	X		X	X		
0710				GAC1 W Oly	STD	4-V	X		X	X		
0705				GAC2 W Oly	STD	4-V	X		X	X		
0700		AQ	STR14061940-01A	EFF W Oly	24	4-V	X		X	X		

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0638 (c) (2).

Sampled By: <u>SHILL</u>	Date: <u>8-18-14</u>	Time: <u>1100</u>	Received by: (Signature/Affiliation): <u>MEMUSSAT</u>	Date: <u>8-18-14</u>	Time: <u>1100</u>
Relinquished by: (Signature/Affiliation): <u>Stanley's</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>8/19/14</u>	Time: <u>0926</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil ** L - Litter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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.



Alpha Analytical, Inc.

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ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 09/09/14

Job: Olympic

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 : Oly W INF				
Lab ID : STR14090941-01A	TPH-P (GRO)	ND	09/11/14	09/11/14
Date Sampled 09/08/14 07:55	Methyl tert-butyl ether (MTBE)	12	09/11/14	09/11/14
	Benzene	0.89	09/11/14	09/11/14
	Toluene	ND	09/11/14	09/11/14
	Ethylbenzene	ND	09/11/14	09/11/14
	m,p-Xylene	ND	09/11/14	09/11/14
	o-Xylene	ND	09/11/14	09/11/14

Gasoline Range Organics (GRO) C4-C13

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.



pg

9/11/14

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

VOC Sample Preservation Report

Work Order: STR14090941

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14090941-01A	Oly W INF	Aqueous	2

9/11/14

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:
15-Sep-14

QC Summary Report

Work Order:
14090941

Method Blank

File ID: 14091105.D

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

Batch ID: MS09W0911B

Analysis Date: 09/11/2014 13:14

Sample ID: MBLK MS09W0911B

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 13:14

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

ND

50

Surr: 1,2-Dichloroethane-d4

7.7

10

77

70

130

Surr: Toluene-d8

10.7

10

107

70

130

Surr: 4-Bromofluorobenzene

9.54

10

95

70

130

Laboratory Control Spike

File ID: 14091103.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0911B

Analysis Date: 09/11/2014 11:34

Sample ID: GLCS MS09W0911B

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 11:34

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

428

50

400

107

70

130

Surr: 1,2-Dichloroethane-d4

8.3

10

83

70

130

Surr: Toluene-d8

10.1

10

101

70

130

Surr: 4-Bromofluorobenzene

9.8

10

98

70

130

Sample Matrix Spike

File ID: 14091120.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0911B

Analysis Date: 09/11/2014 19:32

Sample ID: 14090941-01AGS

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 19:32

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

1850

250

2000

0

93

54

143

Surr: 1,2-Dichloroethane-d4

41.5

50

83

70

130

Surr: Toluene-d8

50.8

50

102

70

130

Surr: 4-Bromofluorobenzene

48.9

50

98

70

130

Sample Matrix Spike Duplicate

File ID: 14091121.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0911B

Analysis Date: 09/11/2014 19:56

Sample ID: 14090941-01AGSD

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 19:56

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

TPH-P (GRO)

1880

250

2000

0

94

54

143

1854

1.2(23)

Surr: 1,2-Dichloroethane-d4

38.9

50

78

70

130

Surr: Toluene-d8

50.9

50

102

70

130

Surr: 4-Bromofluorobenzene

49.2

50

98

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:
15-Sep-14

QC Summary Report

Work Order:
14090941

Method Blank

File ID: 14091105.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS09W0911A

Analysis Date: 09/11/2014 13:14

Sample ID: MBLK MS09W0911A

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 13:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	7.7		10		77	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.54		10		95	70	130			

Laboratory Control Spike

File ID: 14091104.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS09W0911A

Analysis Date: 09/11/2014 12:45

Sample ID: LCS MS09W0911A

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 12:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	6.9	0.5	10		69	63	137			
Benzene	9.08	0.5	10		91	70	130			
Toluene	9.71	0.5	10		97	80	120			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	9.78	0.5	10		98	65	139			
o-Xylene	8.94	0.5	10		89	70	130			
Surr: 1,2-Dichloroethane-d4	6.93		10		69	70	130			S54
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	9.84		10		98	70	130			

Sample Matrix Spike

File ID: 14091118.D

Type MS Test Code: EPA Method SW8260B

Batch ID: MS09W0911A

Analysis Date: 09/11/2014 18:45

Sample ID: 14090941-01AMS

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 18:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	65.6	1.3	50	12.49	106	56	140			
Benzene	50.6	1.3	50	0.89	100	67	134			
Toluene	49.1	1.3	50	0	98	38	130			
Ethylbenzene	52.9	1.3	50	0	106	70	130			
m,p-Xylene	49.5	1.3	50	0	99	65	139			
o-Xylene	47.3	1.3	50	0	95	69	130			
Surr: 1,2-Dichloroethane-d4	43.4		50		87	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	45.2		50		90	70	130			

Sample Matrix Spike Duplicate

File ID: 14091119.D

Type MSD Test Code: EPA Method SW8260B

Batch ID: MS09W0911A

Analysis Date: 09/11/2014 19:08

Sample ID: 14090941-01AMSD

Units: µg/L

Run ID: MSD_09_140911A

Prep Date: 09/11/2014 19:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	72.8	1.3	50	12.49	121	56	140	65.55	10.5(40)	
Benzene	57.7	1.3	50	0.89	114	67	134	50.64	13.1(21)	
Toluene	55.9	1.3	50	0	112	38	130	49.09	13.0(20)	
Ethylbenzene	59.5	1.3	50	0	119	70	130	52.87	11.8(20)	
m,p-Xylene	55.4	1.3	50	0	111	65	139	49.53	11.3(20)	
o-Xylene	53.3	1.3	50	0	107	69	130	47.3	11.9(20)	
Surr: 1,2-Dichloroethane-d4	41.5		50		83	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	45		50		90	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:
15-Sep-14

QC Summary Report

Work Order:
14090941

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.

S54 = Surrogate recovery was below laboratory acceptance limits.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA RUSH

 Page: 1 of 1

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

WorkOrder : STR14090941
Report Due By : 5:00 PM On : 11-Sep-14

Client:

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

Report Attention	Phone Number	EEmail Address.
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

Cooler Temp	Samples Received	Date Printed
2 °C	09-Sep-14	09-Sep-14

PO :

Client's COC # : 16338 Job : Olympic

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests							Sample Remarks		
				Alpha	Sub	TAT	TPHP_W	VOC_W								
STR14090941-01A	Oly W INF	AQ	09/08/14 07:55	4	0	2	GAS-C	BTXB/M_C								

Comments:

48hr TAT. Security seals intact. Frozen ice. Chain split into three separate work orders due to different TAT. :

Signature	Print Name	Company	Date/Time
	ALIADNA CHACON	Alpha Analytical, Inc.	9/09/14 10:17

Logged in by:

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: Stark's
 Attn: Subbu
 Address: 3730 Cimarron Pk
 City, State, Zip: Cimarron Pk
 Phone Number: 530-676-0014 Fax: 530-676-0015



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolla Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 714-388-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16338

Page # 1 of 1

Consultant/Client Info: Stark's
 Company: Stark's
 Address: _____
 City, State, Zip: _____
 Job and Purchase Order Info:
 Job #: _____
 Job Name: Olympic
 P.O. #: _____
 Report Attention/Project Manager:
 Name: J. Nelson
 Email Address: _____
 Phone #: _____
 Cell #: _____
 QC Deliverable Info:
 EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Global ID: _____
 Data Validation Packages: III or IV _____

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Analysis Requested			Remarks	
							Field Filtered?	TPH	BTEX		MTBE
							Yes	No			
0755	9, 8	AQ	STR14090941-01A	Oly w INF	72	4	X	X	X	X	
0750				Oly w GAE 1	910	4	X	X	X	X	
0745				Oly w GAE 2	510	4	X	X	X	X	
0740	9, 8	AQ		Oly w EPC	24	4	X	X	X	X	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0636 (c) (2).

Sampled By: <u>EMILL</u> Relinquished by: (Signature/Affiliation): <u>Subbu Stark's</u> Date: <u>9-8-14</u> Time: <u>1130</u>	Received by: (Signature/Affiliation): <u>Melissa T</u> Relinquished by: (Signature/Affiliation): <u>[Signature]</u> Date: <u>9-8-14</u> Time: <u>1130</u>
Relinquished by: (Signature/Affiliation): Date: Time:	Received by: (Signature/Affiliation): Relinquished by: (Signature/Affiliation): Date: <u>9-09-14</u> Time: <u>1029</u>

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil ** L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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.



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: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 09/09/14

Job: Olympic

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 :	Oly W GAC 1				
Lab ID :	TPH-P (GRO)	ND	50 µg/L	09/15/14	09/15/14
Date Sampled	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	09/15/14	09/15/14
	Benzene	ND	0.50 µg/L	09/15/14	09/15/14
	Toluene	ND	0.50 µg/L	09/15/14	09/15/14
	Ethylbenzene	ND	0.50 µg/L	09/15/14	09/15/14
	m,p-Xylene	ND	0.50 µg/L	09/15/14	09/15/14
	o-Xylene	ND	0.50 µg/L	09/15/14	09/15/14
Client ID :	Oly W GAC 2				
Lab ID :	TPH-P (GRO)	ND	50 µg/L	09/15/14	09/15/14
Date Sampled	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	09/15/14	09/15/14
	Benzene	ND	0.50 µg/L	09/15/14	09/15/14
	Toluene	ND	0.50 µg/L	09/15/14	09/15/14
	Ethylbenzene	ND	0.50 µg/L	09/15/14	09/15/14
	m,p-Xylene	ND	0.50 µg/L	09/15/14	09/15/14
	o-Xylene	ND	0.50 µg/L	09/15/14	09/15/14

Gasoline Range Organics (GRO) C4-C13

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.



AS
9/16/14

Report Date

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.



Alpha Analytical, Inc.

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

VOC Sample Preservation Report

Work Order: STR14090942

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14090942-01A	Oly W GAC 1	Aqueous	2
14090942-02A	Oly W GAC 2	Aqueous	2

9/16/14
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:
16-Sep-14

QC Summary Report

Work Order:
14090942

Method Blank

File ID: 14091504.D

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

Batch ID: MS09W0915B

Analysis Date: 09/15/2014 10:42

Sample ID: MBLK MS09W0915B

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 10:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.02		10		90	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.59		10		96	70	130			

Laboratory Control Spike

File ID: 14091503.D

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

Batch ID: MS09W0915B

Analysis Date: 09/15/2014 10:14

Sample ID: GLCS MS09W0915B

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 10:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	391	50	400		98	70	130			
Surr: 1,2-Dichloroethane-d4	8.77		10		88	70	130			
Surr: Toluene-d8	9.68		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.72		10		97	70	130			

Sample Matrix Spike

File ID: 14091516.D

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

Batch ID: MS09W0915B

Analysis Date: 09/15/2014 16:03

Sample ID: 14090942-01AGS

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 16:03

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2230	250	2000		0 111	54	143			
Surr: 1,2-Dichloroethane-d4	44.9		50		90	70	130			
Surr: Toluene-d8	48.4		50		97	70	130			
Surr: 4-Bromofluorobenzene	48.2		50		96	70	130			

Sample Matrix Spike Duplicate

File ID: 14091517.D

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

Batch ID: MS09W0915B

Analysis Date: 09/15/2014 16:27

Sample ID: 14090942-01AGSD

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 16:27

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2200	250	2000		0 110	54	143	2226	1.2(23)	
Surr: 1,2-Dichloroethane-d4	42.8		50		86	70	130			
Surr: Toluene-d8	48.8		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.3		50		97	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:
16-Sep-14

QC Summary Report

Work Order:
14090942

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 14091504.D

Batch ID: MS09W0915A

Analysis Date: 09/15/2014 10:42

Sample ID: MBLK MS09W0915A

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 10:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.02		10		90	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.59		10		96	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 14091502.D

Batch ID: MS09W0915A

Analysis Date: 09/15/2014 09:50

Sample ID: LCS MS09W0915A

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 09:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.24	0.5	10		92	63	137			
Benzene	9.16	0.5	10		92	70	130			
Toluene	8.79	0.5	10		88	80	120			
Ethylbenzene	9.5	0.5	10		95	80	120			
m,p-Xylene	8.93	0.5	10		89	65	139			
o-Xylene	8.42	0.5	10		84	70	130			
Surr: 1,2-Dichloroethane-d4	8.88		10		89	70	130			
Surr: Toluene-d8	9.54		10		95	70	130			
Surr: 4-Bromofluorobenzene	8.93		10		89	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 14091514.D

Batch ID: MS09W0915A

Analysis Date: 09/15/2014 15:15

Sample ID: 14090445-01AMS

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 15:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	62.5	1.3	50	0	125	56	140			
Benzene	60.6	1.3	50	0	121	67	134			
Toluene	55.3	1.3	50	0	111	38	130			
Ethylbenzene	61.5	1.3	50	0	123	70	130			
m,p-Xylene	57.1	1.3	50	0	114	65	139			
o-Xylene	54.2	1.3	50	0	108	69	130			
Surr: 1,2-Dichloroethane-d4	49.5		50		99	70	130			
Surr: Toluene-d8	45		50		90	70	130			
Surr: 4-Bromofluorobenzene	43.1		50		86	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 14091515.D

Batch ID: MS09W0915A

Analysis Date: 09/15/2014 15:39

Sample ID: 14090445-01AMSD

Units: µg/L

Run ID: MSD_09_140915A

Prep Date: 09/15/2014 15:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	63.7	1.3	50	0	127	56	140	62.49	1.9(40)	
Benzene	62.3	1.3	50	0	125	67	134	60.61	2.8(21)	
Toluene	57.5	1.3	50	0	115	38	130	55.34	3.8(20)	
Ethylbenzene	63.2	1.3	50	0	126	70	130	61.53	2.6(20)	
m,p-Xylene	58.5	1.3	50	0	117	65	139	57.13	2.3(20)	
o-Xylene	0.54	1.3	50	0	1.1	69	130	54.21	196.0(20)	M2 R58
Surr: 1,2-Dichloroethane-d4	46.4		50		93	70	130			
Surr: Toluene-d8	45.8		50		92	70	130			
Surr: 4-Bromofluorobenzene	43.4		50		87	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:
16-Sep-14

QC Summary Report

Work Order:
14090942

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.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

R58 = MS/MSD RPD exceeded the laboratory control limit.

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

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

WorkOrder : STR14090942
Report Due By : 5:00 PM On : 16-Sep-14

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

Report Attention	Phone Number	E Mail Address
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill

PO :
 Client's COC # : 16338 Job : Olympic

Cooler Temp	Samples Received	Date Printed
2 °C	09-Sep-14	09-Sep-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests							Sample Remarks		
				Alpha	Sub	TAT	TPH/P_W	VOC_W								
STR14090942-01A	Oly W GAC 1	AQ	09/08/14 07:50	4	0	5	GAS-C	BTXEM_C								
STR14090942-02A	Oly W GAC 2	AQ	09/08/14 07:45	4	0	5	GAS-C	BTXEM_C								

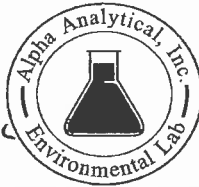
Comments: Security seals intact. Frozen ice. Chain split into three separate work orders due to different TAT.

Signature	Print Name	Company	Date/Time
	ARIADNA CHACON	Alpha Analytical, Inc.	9/19/14 10:59

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: Stevens
 Attn: Debra
 Address: 3330 Camino Pk
 City, State, Zip: Camden NJ
 Phone Number: 5306766044 Fax: 5706770044



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamolle Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 714-366-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16338

Page # 1 of 1

Consultant/Client Info: Job and Purchase Order Info: Report Attention/Project Manager: QC Deliverable Info:

Company: Stevens Job #: _____ Job Name: Olympic Name: J. Nelson
 Address: _____ P.O. #: _____ Email Address: _____
 City, State, Zip: _____ Phone #: _____ Cell #: _____
 EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Global ID: _____
 Data Validation Packages: III or IV _____

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MMDD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers** (See Key Below)	Field Filtered?			Analysis Requested				Remarks
							Yes	No						
0755	9.8	AQ		Oly w JWF	72	4	X			TPH	BTEX	MTBE		
0750				Oly w GAE 1	91D	4	X			X	X	X		
0745				Oly w GAE 2	51D	4	X			X	X	X		
0740	9.8	AQ		Oly w EFC	24	4	X			X	X	X		

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0636 (c) (2).

Sampled By: EMILL
 Relinquished by: (Signature/Affiliation): Debra M. Stevens Date: 9-8-14 Time: 1130
 Received by: (Signature/Affiliation): MENKSA Date: 9-8-14 Time: 1130
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): _____ Date: 9-9-14 Time: 1029
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): _____ Date: _____ Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil ** L - Liter V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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.



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: Trevor Hartwell
Phone: (530) 676-6004
Fax: (530) 676-6005
Date Received : 09/09/14

Job: Olympic

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 : Oly W EFF				
Lab ID : STR14090940-01A	TPH-P (GRO)	50 µg/L	09/10/14	09/10/14
Date Sampled 09/08/14 07:40	Methyl tert-butyl ether (MTBE)	0.50 µg/L	09/10/14	09/10/14
	Benzene	0.50 µg/L	09/10/14	09/10/14
	Toluene	0.50 µg/L	09/10/14	09/10/14
	Ethylbenzene	0.50 µg/L	09/10/14	09/10/14
	m,p-Xylene	0.50 µg/L	09/10/14	09/10/14
	o-Xylene	0.50 µg/L	09/10/14	09/10/14

Gasoline Range Organics (GRO) C4-C13

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.



[Signature]

9/10/14

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

VOC Sample Preservation Report

Work Order: STR14090940

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14090940-01A	Oly W EFF	Aqueous	2

9/10/14
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:
12-Sep-14

QC Summary Report

Work Order:
14090940

Method Blank		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14091006.D			Batch ID: MS09W0910B				Analysis Date: 09/10/2014 16:10			
Sample ID:	MBLK MS09W0910B	Units : µg/L	Run ID: MSD_09_140910A			Prep Date: 09/10/2014 16:10				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.92		10		89	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.95		10		100	70	130			

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14091005.D			Batch ID: MS09W0910B				Analysis Date: 09/10/2014 15:42			
Sample ID:	GLCS MS09W0910B	Units : µg/L	Run ID: MSD_09_140910A			Prep Date: 09/10/2014 15:42				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	359	50	400		90	70	130			
Surr: 1,2-Dichloroethane-d4	9.33		10		93	70	130			
Surr: Toluene-d8	9.48		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.9		10		99	70	130			

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14091020.D			Batch ID: MS09W0910B				Analysis Date: 09/10/2014 21:43			
Sample ID:	14090940-01AGS	Units : µg/L	Run ID: MSD_09_140910A			Prep Date: 09/10/2014 21:43				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1710	250	2000		0	86	54	143		
Surr: 1,2-Dichloroethane-d4	40.9		50		82	70	130			
Surr: Toluene-d8	50		50		100	70	130			
Surr: 4-Bromofluorobenzene	49		50		98	70	130			

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14091021.D			Batch ID: MS09W0910B				Analysis Date: 09/10/2014 22:07			
Sample ID:	14090940-01AGSD	Units : µg/L	Run ID: MSD_09_140910A			Prep Date: 09/10/2014 22:07				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2050	250	2000		0	102	54	143	1714	17.8(23)
Surr: 1,2-Dichloroethane-d4	41.6		50		83	70	130			
Surr: Toluene-d8	50.2		50		100	70	130			
Surr: 4-Bromofluorobenzene	48.9		50		98	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.

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Date:
12-Sep-14

QC Summary Report

Work Order:
14090940

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **14091006.D**

Batch ID: **MS09W0910A**

Analysis Date: **09/10/2014 16:10**

Sample ID: **MBLK MS09W0910A**

Units : **µg/L**

Run ID: **MSD_09_140910A**

Prep Date: **09/10/2014 16:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	8.92		10		89	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.95		10		100	70	130			

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **14091004.D**

Batch ID: **MS09W0910A**

Analysis Date: **09/10/2014 15:18**

Sample ID: **LCS MS09W0910A**

Units : **µg/L**

Run ID: **MSD_09_140910A**

Prep Date: **09/10/2014 15:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.32	0.5	10		73	63	137			
Benzene	8.51	0.5	10		85	70	130			
Toluene	8.49	0.5	10		85	80	120			
Ethylbenzene	9.22	0.5	10		92	80	120			
m,p-Xylene	8.46	0.5	10		85	65	139			
o-Xylene	7.9	0.5	10		79	70	130			
Surr: 1,2-Dichloroethane-d4	8.63		10		86	70	130			
Surr: Toluene-d8	9.77		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.57		10		96	70	130			

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **14091018.D**

Batch ID: **MS09W0910A**

Analysis Date: **09/10/2014 20:55**

Sample ID: **14090940-01AMS**

Units : **µg/L**

Run ID: **MSD_09_140910A**

Prep Date: **09/10/2014 20:55**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	56.6	1.3	50	0	113	56	140			
Benzene	54.6	1.3	50	0	109	67	134			
Toluene	54.7	1.3	50	0	109	38	130			
Ethylbenzene	57.5	1.3	50	0	115	70	130			
m,p-Xylene	53.9	1.3	50	0	108	65	139			
o-Xylene	51.9	1.3	50	0	104	69	130			
Surr: 1,2-Dichloroethane-d4	41.3		50		83	70	130			
Surr: Toluene-d8	49.5		50		99	70	130			
Surr: 4-Bromofluorobenzene	45.3		50		91	70	130			

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **14091019.D**

Batch ID: **MS09W0910A**

Analysis Date: **09/10/2014 21:19**

Sample ID: **14090940-01AMSD**

Units : **µg/L**

Run ID: **MSD_09_140910A**

Prep Date: **09/10/2014 21:19**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	60.1	1.3	50	0	120	56	140	56.58	6.1(40)	
Benzene	58.2	1.3	50	0	116	67	134	54.64	6.2(21)	
Toluene	58	1.3	50	0	116	38	130	54.68	5.9(20)	
Ethylbenzene	61.3	1.3	50	0	123	70	130	57.52	6.3(20)	
m,p-Xylene	57.5	1.3	50	0	115	65	139	53.91	6.5(20)	
o-Xylene	55.1	1.3	50	0	110	69	130	51.93	5.9(20)	
Surr: 1,2-Dichloroethane-d4	41		50		82	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	45.1		50		90	70	130			



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
12-Sep-14

QC Summary Report

Work Order:
14090940

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

CA RUSH Page: 1 of 1

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

WorkOrder : STR14090940
Report Due By : 5:00 PM On : 10-Sep-14

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

Report Attention	Phone Number	E Mail Address
Trevor Hartwell	(530) 676-6004 x	thartwell@stratusinc.net

EDD Required : Yes

Sampled by : C. Hill


PO :
 Client's COC # : 16338 Job : Olympic

Cooler Temp	Samples Received	Date Printed
2 °C	09-Sep-14	09-Sep-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests							Sample Remarks			
				Alpha	Sub	TAT	TPH/P_W	VOC_W									
STR14090940-01A	Oly W EFF	AQ	09/08/14 07:40	4	0	1	GAS-C	BIXE/M_C									

Comments: 24hr TAT. Security seals intact. Frozen ice. Chain split into three separate work orders due to different TAT. :

Signature	Print Name	Company	Date/Time
	HELMONIA CHACON	Alpha Analytical, Inc.	9/09/14 1041

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

Company: Stark's
 Attn: J. H. Baker
 Address: 3330 Commercial Pl
 City, State, Zip: Carson, CA
 Phone Number: 530-676-0614 Fax: 530-676-0614



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90748
 Northern NV: 1250 Lamolla Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 714-386-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

16338

Page # 1 of 1

Company: Stark's Job # _____ Job and Purchase Order Info: Olympic Report Attention/Project Manager: T. H. Baker QC Deliverable Info:
 Address: _____ Job Name: _____ Email Address: _____ EDD Required? Yes / No _____ EDF Required? Yes / No _____
 City, State, Zip: _____ P.O. #: _____ Phone #: _____ Global ID: _____
 Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other Cell #: _____ Data Validation Packages: III or IV

Time Sampled (HH:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Analysis Requested			Remarks		
							Field Filtered?	TRM	BTEX		MTBE	
							Yes	No				
0750	9, 9	AQ		Oly W INV	72	4	X		X	X	X	
0750	)	)		Oly W GAC 1	90	4	X		X	X	X	
0745	)	)		Oly W GAC 2	90	4	X		X	X	X	
0740	9, 8	AQ	STR140940-01A	Oly W EFF	24	4	X		X	X	X	

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). 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. NAC 445.0636 (c) (2).

Sampled by: <u>EMIL</u>	Date: <u>9-8-14</u>	Time: <u>1130</u>	Received by: (Signature/Affiliation): <u>Meyssa T</u>	Date: <u>9-8-14</u>	Time: <u>1130</u>
Relinquished by: (Signature/Affiliation): <u>John W. Stark</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>9-09-14</u>	Time: <u>1029</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other So-Soil ** L - Liter V - VOA S-Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt 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
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UPLOADING A EDF FILE

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 7-21-14 AINF-AEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	EDF_OlympicStation_88741.ZIP
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 3:20:47 PM
<u>Confirmation Number:</u>	4947054028

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<u>Report Title:</u>	3Q14 QMR 8-4-14 AINF-AEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	EDF_OlympicStation_88839.ZIP
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 3:22:48 PM
<u>Confirmation Number:</u>	3969682812

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 9-8-14 AINF-AEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	EDF_OlympicStation_89089.ZIP
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 3:24:54 PM
<u>Confirmation Number:</u>	8320472061

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<u>Report Title:</u>	3Q14 QMR 7-21-14 WINF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14072144_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 10:26:40 AM
<u>Confirmation Number:</u>	4036842107

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<u>Report Title:</u>	3Q14 QMR 7-21-14 WGAC1-WGAC2
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14072240_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 11:33:39 AM
<u>Confirmation Number:</u>	8833808243

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 7-21-14 WEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14072145_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 11:34:31 AM
<u>Confirmation Number:</u>	3911367833

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 7-29-14 WEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14072940_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 11:35:18 AM
<u>Confirmation Number:</u>	9574149429

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 8-18-14 WINF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14081941_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 11:36:07 AM
<u>Confirmation Number:</u>	4181312322

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 8-18-14 WGAC1-GAC2
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14081942_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 11:37:16 AM
<u>Confirmation Number:</u>	3536156833

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GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 8-18-14 WEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14081940_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 11:39:37 AM
<u>Confirmation Number:</u>	7046409368

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 9-8-14 WINF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14090941_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 12:07:43 PM
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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 9-8-14 WGAC1-WGAC2
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14090942_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q14 QMR 9-8-14 WEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14090940_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/1/2014 12:12:31 PM
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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	Rem. Status Report & Results of Limited Groundwater Sampling Event
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	14092241_EDF.zip
<u>Organization Name:</u>	Stratus Environmental, Inc.
<u>Username:</u>	STRATUS NOCAL
<u>IP Address:</u>	50.192.223.97
<u>Submittal Date/Time:</u>	10/6/2014 12:18:38 PM
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