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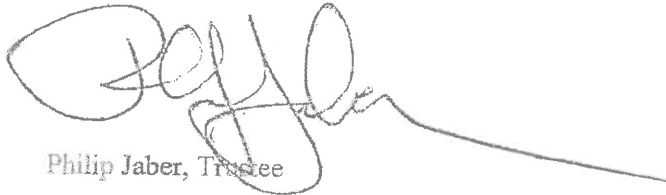
Mr. Mark Detterman
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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

July 17, 2015
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

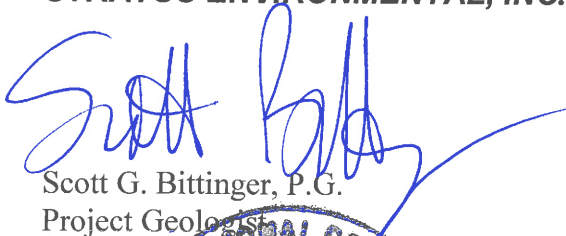
Re: **Remediation Status Report and Results of Second Quarter 2015
Groundwater Monitoring and Sampling Event**
Former Olympic Station
1436 Grant Avenue
San Lorenzo, California
ACEHD Case No. RO0000373, GeoTracker No. T0600102256


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,

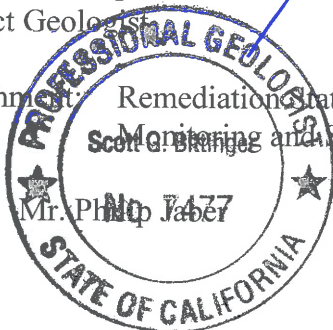
STRATUS ENVIRONMENTAL, INC.


Scott G. Bittinger, P.G.
Project Geologist


Gowri S. Kowtha, P.E.
Project Manager

Attachment: Remediation Status Report and Results of Second Quarter 2015 Groundwater
Monitoring and Sampling Event

cc: Mr. Philip Jaber



**FORMER OLYMPIC STATION
REMEDATION STATUS REPORT AND RESULTS OF SECOND QUARTER 2015
GROUNDWATER MONITORING AND SAMPLING EVENT**

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 (Second Quarter 2015):

1. On April 14, 2015, Stratus performed the second quarter 2015 groundwater monitoring and sampling event.
2. After reviewing the results of the April 2015 well samples, Stratus resumed operation of the DPE remediation system. The system was expanded to include extraction from wells MW-5A and MW-6A, which are impacted with the highest remaining concentrations of gasoline range organics (GRO) and benzene in groundwater. The DPE system was re-started on May 5, 2015, and Stratus completed additional operation and maintenance (O&M) visits on May 20 and 21, and June 2 and 22, 2015.

WORK PROPOSED FOR NEXT PERIOD (Third Quarter 2015):

1. Stratus will collect groundwater samples from wells MW-5A and MW-6A.
2. DPE will continue during the third quarter 2015; data collected during DPE efforts will be evaluated on an ongoing basis in order to justify continued operation during the summer and fall months of 2015. 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.
3. Stratus, ACEHD, and Mr. Jaber met to discuss the site on July 7, 2015. At this meeting, it was agreed that a work plan would be prepared proposing to expand the site's network of shallow groundwater monitoring and soil vapor sampling wells west of the site. It was also agreed that the work plan would include a proposal to perform a door-to-door reconnaissance in order to identify any undocumented wells within a 500' radius west of the site. The work plan will also include a focused Site Conceptual Model.

Current Phase of Project:	<u>CAP/REM (Start-up)</u>
Frequency of Groundwater Monitoring:	<u>All Wells = Semi-Annual (second and fourth calendar quarters); Wells MW-5A and MW-6A also gauged during the first and third calendar quarters to assess purge volumes for sampling</u>
Frequency of Groundwater Monitoring and Sampling:	<u>All Wells (except MW-5A and MW-6A) = Semi-Annual (second and fourth calendar quarters); Wells MW-5A and MW-6A sampled quarterly per 9/17/14 directive from ACEHD</u>

Groundwater Sampling Date:	April 14, 2015
Is Free Product (FP) Present on Site:	No
Approximate Depth to Groundwater:	6.57 to 7.24 feet below top of well casing under inactive DPE conditions
Groundwater Flow Direction:	West
Groundwater Gradient:	0.004 ft/ft

DPE SYSTEM QUARTERLY OPERATION AND PERFORMANCE:

Equipment Inventory:	350 cubic feet per minute (cfm) thermal oxidizer, and two 1,000 pound liquid-phase granular activated carbon vessels, connected in-series.
Extraction Wells:	EX-1 through EX-7, MW-5A, MW-6A
Operating Mode:	Thermal
BAAQMD Permit Nos.:	Plant No. 21776
Influent Air: GRO End of Period (lab):	<20 milligrams per cubic meter (mg/m ³) (6/2/15)
Influent Air: Benzene End of Period (lab):	0.20 mg/m ³ (6/2/15)
Influent Air: MTBE End of Period (lab):	0.24 mg/m ³ (6/2/15)
Flow Rate End of Period:	73.6 acfm (6/2/15)
Applied Vacuum End of Period:	14 inches of water column ("WC) (6/22/15)
GRO Removed this Period in Soil Vapor:	5.2 lbs (between 3/23/15 and 6/2/15)
Cumulative GRO Removed in Soil Vapor:	946.4 lbs (between 7/21/14 and 6/2/15)
Influent Groundwater: GRO End of Period (lab):	<50 µg/L (6/2/15)
Influent Groundwater: Benzene End of Period (lab):	<0.50 µg/L (6/2/15)
Influent Groundwater: MTBE End of Period (lab):	7.7 µg/L (6/2/15)
Average Groundwater Extraction Rate :	5.9 gpm (between 3/23/15 and 6/2/15)
GRO Removed this Period in Groundwater:	0.032 lbs (between 3/23/15 and 6/2/15)
Cumulative GRO Removed in Groundwater:	0.69 lbs (between 7/21/14 and 6/2/15)
Groundwater Removed this Period:	51,320 gallons (between 3/23/15 and 6/2/15)
Cumulative Groundwater Removed:	918,660 gallons (between 7/21/14 and 6/2/15)
Operating Hours This Period:	697 hours (between 3/23/15 and 6/22/15)
Number of Shutdowns:	2 (1-manual, 1-automatic)

GROUNDWATER MONITORING AND SAMPLING EVENT:

An electronic water level sounder was used to gauge depth to water levels in the site's monitoring and extraction wells. Following gauging, purge groundwater samples were collected from the monitoring and extraction wells. Groundwater samples collected from the wells 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.

Groundwater levels in the monitoring wells were corrected to elevation mean sea level and used to prepare a groundwater elevation contour map (Figure 3). On April 14, 2015, groundwater flow was predominately towards the west at an average gradient of approximately 0.004 ft/ft. West, west-southwest, and southwest groundwater flow have predominately been observed beneath the site historically.

The highest concentrations of fuel contaminants in groundwater were detected in monitoring wells installed to a depth of 10 feet bgs, approximately 3 feet below the current groundwater table at the site. Lower concentrations of fuel contaminants were reported in samples collected from the other monitoring/remediation wells, which have been installed to depths ranging from approximately 20 to 26 feet bgs. Figures 4 and 5 present a summary of GRO, benzene, and MTBE concentrations in groundwater for samples collected on April 14, 2015, from the 10-foot depth wells, and 20 to 26-foot depth wells, respectively.

GRO was detected in wells MW-5A, MW-6A, and MW-4 at concentrations of 12,000 micrograms per liter ($\mu\text{g/L}$), 12,000 $\mu\text{g/L}$, and 460 $\mu\text{g/L}$, respectively. Benzene was detected in the MW-5A, MW-6A, and MW-4 samples at levels of 1,600 $\mu\text{g/L}$, 2,100 $\mu\text{g/L}$, and 33 $\mu\text{g/L}$, respectively. The highest levels of MTBE were detected in the MW-4 well sample (730 $\mu\text{g/L}$), with MTBE also reported in the MW-5A (7 $\mu\text{g/L}$) and MW-6A (61 $\mu\text{g/L}$) samples.

In the deeper well samples, the highest concentrations of GRO (180 $\mu\text{g/L}$) and benzene (25 $\mu\text{g/L}$) were detected in the EX-1 well sample, and the highest levels of MTBE (150 $\mu\text{g/L}$) were detected in the MW-6B well sample. Only one other deeper screened well was impacted with benzene (EX-1, at 1.5 $\mu\text{g/L}$). Four other wells were impacted with GRO, at concentrations ranging from 64 $\mu\text{g/L}$ to 85 $\mu\text{g/L}$. All of the deeper well samples were impacted with MTBE, with concentrations at relatively low levels (see Figure 5).

REMEDIAL ACTION SUMMARY

The DPE system consists of a portable 350 cubic feet per minute (cfm) thermal oxidizer owned by CBA Equipment, LLC and 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 have been manifolded to the remediation system; the system was later expanded to accommodate wells MW-5A and MW-6A (discussed below). Groundwater and soil vapors are extracted from a combination of wells intermittently to maximize the systems efficiency. In-well drop tubes (stingers) are used to extract soil vapors and groundwater from 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 on-site using two 1,000-pound GAC vessels, and then discharged to the sanitary sewer under approved discharge permit (Oro Loma Sanitary Sewer District). The remediation system is equipped to measure the extraction rates (soil vapor and groundwater flow rates). A flow totalizer is installed to record the volume of treated water extracted and discharged to the sanitary sewer. Influent and effluent soil vapor concentrations are also monitored using a photo-ionization detector (PID). 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 6.

The system was shut down on March 23, 2015, to evaluate pulse operation and allow for second quarter groundwater monitoring. During the second quarter 2015, Stratus technicians conducted five O&M site visits; restarting the equipment on May 5, 2015, and subsequent visits on May 20, and 21, and June 2 and 22, 2015. Stratus personnel optimized the system performance by adjusting the depth of the drop tubes (stingers) and extracting from various select wells. On May 5, 2015, the system was modified to additionally extract from wells MW-5A and MW-6A to attempt to reduce GRO and benzene concentrations in groundwater and shallow soil vapor in this area of the site. Magnehelic gauges have been placed within

monitoring wells MW-1 through MW-4, to measure the induced vacuum, and a hand-operated electric water-level sounder is used to measure depth to groundwater in each of these wells. During this period (March 23 through June 22, 2015), the remediation system operated for approximately 697 hours. Influent soil vapor extraction flow rates were observed between 73 and 78 cubic feet per minute (cfm) under an applied vacuum ranging between 14 to 15 inches of mercury ("Hg). Field data sheets documenting measurements and observations collected during each visit are included in Appendix A. Tables 3 through 9 provide a summary of data pertaining to the use of the DPE system.

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 VOAs 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 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. Analytical data for these samples is included in Appendix C and documentation of GeoTracker data uploading is provided in Appendix D.

During the second quarter 2015, influent GRO and benzene concentrations decreased from 110 milligrams per cubic meter (mg/m^3) to less than $20 \text{ mg}/\text{m}^3$ and $0.56 \text{ mg}/\text{m}^3$ to $0.20 \text{ mg}/\text{m}^3$, respectively, while influent MTBE concentrations were observed to slightly increase from less than 0.20 to $0.24 \text{ mg}/\text{m}^3$. No petroleum hydrocarbons or MTBE were detected in the effluent air samples; therefore, 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 5.2 pounds of GRO were removed from the subsurface, in the vapor phase, between March 23 and June 2, 2015, and a total of 946.4 pounds of GRO has been removed from the subsurface, in the vapor phase, since startup July 21, 2014, through June 2, 2015 (see Table 6).

Between March 23 and June 2, 2015, approximately 51,320 gallons of groundwater were extracted from the subsurface, treated on-site, and discharged to the sanitary sewer system. Based on flow totalizer measurements, groundwater is being extracted at a rate of approximately 5.9 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:

ACEHD has requested a work plan to perform additional environmental site assessment work, in particular west-southwest of wells MW-5A and MW-6A, where the highest GRO and BTEX concentrations are detected in shallow groundwater. Since initiation of DPE in July 2014, concentrations of GRO and BTEX have generally declined at wells MW-5A and MW-6A; however, contaminant levels at these two wells remain higher than in other areas of the site and the contaminant plume cannot be fully assessed using the existing monitoring well network. The work plan will include a proposal to install two groundwater monitoring wells and two soil vapor sampling points to the west of MW-5A and MW-6A, in the vicinity of the shopping center located west of the former Olympic service station.

LIMITATIONS

This document was prepared in general accordance with accepted standards of care that existed at the time this work was performed. No other warranty, expressed or implied, is made. Conclusions and recommendations are based on field observations and data obtained from this work and previous investigations. It should be recognized that definition and evaluation of geologic conditions is a difficult and somewhat inexact science. Judgments leading to conclusions and recommendations are generally made with an incomplete knowledge of the subsurface conditions present. More extensive studies may

be performed to reduce uncertainties. This document is solely for the use and information of our client unless otherwise noted.

ATTACHMENTS:

- Table 1 Well Construction Detail Summary
- 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 - DPE Remediation Event (Petroleum Hydrocarbons and MTBE)
- Table 8 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 Groundwater Elevation Contour Map, Second Quarter 2015
- Figure 4 Groundwater Analytical Summary, 10' Depth Monitoring Wells, Second Quarter 2015
- Figure 5 Groundwater Analytical Summary, 20-26' Depth Monitoring Wells, Second Quarter 2015
- Figure 6 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)	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-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	--	--	--	--	--	--	--
	11/25/14	7.45		11.15	--	--	--	51	<0.50	<0.50	<0.50	<0.50	100	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	7.24		11.36	--	--	--	68	<0.50	<0.50	<0.50	<0.50	120	--	--	--	--	--	--	--

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	--	--	--	--	--	--	--
	11/25/14	7.03		10.97	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	0.67	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.83		11.17	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	--	--	--	--	--	--

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)	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	--	--	--	--	--	--	--
	11/25/14	7.11		10.84	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	20	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.85		11.10	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	43	--	--	--	--	--	--	--

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)	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-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	--	--	--	--	--	--	--
	11/25/14	7.00		10.99	--	--	--	2,900	72	<5.0[2]	<5.0[2]	<5.0[2]	4,500	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/14/15	7.00		10.99	--	--	--	460	33	<1.0[4]	<1.0[4]	<1.0[4]	730	--	--	--	--	--	--	--	
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]	--	--	--	--	--	--	--
	11/25/14	7.47		10.47	--	--	--	14,000	1,500	<10[2]	1,100	570	<10[2]	--	--	--	--	--	--	--
	02/02/15	6.90		11.04	--	--	--	10,000	970	<20[2]	480	180	<20[2]	--	--	--	--	--	--	--
	04/14/15	6.81		11.13	--	--	--	12,000	1,600	5.2	940	270	7.0	--	--	--	--	--	--	
MW-5B	06/19/14	7.52	17.92	10.40	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	32	--	--	--	--	--	--	--
	11/25/14	7.18		10.74	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	10	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.88		11.04	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	--	--	--	--	--	
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	--	--	--	--	--	--	--
	11/25/14	7.56		10.49	--	--	--	23,000	2,800	16	1,500	1,730	160	--	--	--	--	--	--	--
	02/02/15	7.13		10.92	--	--	--	14,000	1,100	<20[2]	490	350	35	--	--	--	--	--	--	--
	04/14/15	6.98		11.07	--	--	--	12,000	2,100	<10[2]	880	190	61	--	--	--	--	--	--	
MW-6B	06/19/14	7.32	17.69	10.37	--	--	--	86	<0.50	<0.50	<0.50	<0.50	82	--	--	--	--	--	--	--
	11/25/14	6.98		10.71	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	51	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.68		11.01	--	--	--	85	<0.50	<0.50	<0.50	<0.50	150	--	--	--	--	--	--	

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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)	
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																	
	06/19/14	7.59		10.55	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	19	--	--	--	--	--	--	--	
	11/25/14	6.95		11.19	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	15	--	--	--	--	--	--	--	
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	NM		NM	--	--	--	64	1.5	<0.50	<0.50	<0.50	49	--	--	--	--	--	--	--	
	Well Covered by Car - No Sample Collected																				
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	--	--	--	--	--	--	--	
	11/25/14	7.02		11.12	--	--	--	72	<0.50	<0.50	<0.50	<0.50	130	--	--	--	--	--	--	--	
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.77		11.37	--	--	--	70	<0.50	<0.50	<0.50	<0.50	120	--	--	--	--	--	--	--	
	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	--	--	--	--	--	--	--	
11/25/14		6.85		10.78	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	6.9	--	--	--	--	--	--	--	
02/02/15		--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
04/14/15		6.57		11.06	--	--	--	<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)	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)
EX-4	06/19/14	7.64	18.30	10.66	--	--	--	210	9.5	<0.50	0.55	0.74	10	--	--	--	--	--	--	--
	11/25/14	7.21		11.09	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	8.5	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	7.00		11.30	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	1.1	--	--	--	--	--	--	--
EX-5	06/19/14	7.84	18.41	10.57	--	--	--	110	6.0	<0.50	<0.50	<0.50	14	--	--	--	--	--	--	--
	11/25/14	7.42		10.99	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	40	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	NM		NM	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	15	--	--	--	--	--	--	--
EX-6	06/19/14	7.81	18.29	10.48	--	--	--	190	25	<0.50	5.9	<0.50	18	--	--	--	--	--	--	--
	11/25/14	7.44		10.85	--	--	--	250	36	<0.50	7.1	<0.50	160	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	7.17		11.12	--	--	--	180	25	<0.50	3.1	<0.50	110	--	--	--	--	--	--	--
EX-7	06/19/14	7.44	18.06	10.62	--	--	--	56	0.79	<0.50	<0.50	<0.50	50	--	--	--	--	--	--	--
	11/25/14	7.04		11.02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	--	--	--	--	--	--
	02/02/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/14/15	6.81		11.25	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	24	--	--	--	--	--	--	--

Legend/Key:

ft msl = feet above mean sea level
µg/L = micrograms per liter
NM = Not measured

TPH - mo = total petroleum hydrocarbons as motor oil
TPHd = total petroleum hydrocarbons as diesel
GRO = gasoline range organics C6-C12

MTBE - methyl tertiary butyl ether
DIPE = di isopropyl ether
ETBE = ethyl tertiary butyl ether

TAME = tert amyl methyl ether
TBA = tert butyl ether
EDB = 1,2-dibromoethane
1,2-DCA = 1,2-dichloroethane

Analytical Methods:

GRO analyzed by EPA Method SW8015B/SW8260B, all other analytes analyzed by SW8260B.

- * = 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.

[4] = Repoting Limits were increasased due to sample foaming.

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	Area	Sys Inf Temp	Sys Inf Air Velocity	Sys Inf Air Flowrate	Control Temp	Effluent Air Temp	Area	Dilution Air Temp	Dilution Air Velocity	Dilution Air Flowrate	pH		PID	
														Inf	Eff	Sys Inf	Eff
														"Hg	ft ²	°F	fpm
7/21/14 6:00	1	3,478.1	16.0	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	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	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	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	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	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	0.0491	100	2,700	132.5	1,464	1,425	--	--	--	--	--	--	150	1.7
10/2/14 6:48	6	4,823.0	12.0	0.0491	98	2,800	137.4	1,467	1,429	--	--	--	--	7.91	7.93	25	2.3
10/20/14 10:00	7	5,039.0	14.0	0.0491	90	2,500	122.7	1,460	1,389	--	--	--	--	--	--	45	2.6
11/3/14 7:00	8	5,265.0	14.0	0.0491	90	2,600	127.6	1,426	1,471	--	--	--	--	8.17	8.31	50	2.1
11/18/14 6:00	9	5,269.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/4/14 5:45	10	5,271.0	20.0	0.0491	90	2,000	98.2	1,468	1,310	0.0218	63	3096	68	8.13	8.36	16	2.4
12/16/14 5:30		5,557.0	16.0	0.0491	80	2,500	122.7	1,463	1,420	0.0218	55	2910	63	--	--	50	1.2
1/5/15 7:15	8	5,873.0	19.0	0.0491	72	1,500	73.6	1,534	1,400	0.0218	50	1534	33	8.19	8.41	10	1.8
1/19/15 6:00	8	5,888.0	18.0	0.0491	80	1,800	88.4	1,460	1,365	0.0218	50	1484	32	--	--	10	1.3
2/2/15 5:55	8	5,926.0	17.0	0.0491	80	1,750	85.9	1,467	1,413	0.0218	60	1987	43	8.05	8.13	5	1.3
2/16/15 6:00	8	5,930.0	19.0	0.0491	75	1,500	73.6	1,474	1,350	0.0218	63	1348	29	--	--	6	0.8
3/10/15 5:05	8	5,941.0	20.0	0.0491	78	1,500	73.6	1,463	1,350	0.0218	67	1771	39	8.13	8.21	10	0.9
3/23/15 7:00	11	6,015.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

5/5/15 5:00	12	6,018.0	14.5	0.0491	80	1600	78.5	1494	1400	0.0218	55	2319	51	7.49	7.96	25	2.5
5/20/15 5:45	13	6,059.0	15.0	0.0491	80	1450	71.2	1450	--	0.0218	65	685	15	--	--	40	1.3
5/21/15 5:10	14	6,083.0	15.0	0.0491	90	1500	73.6	1450	--	0.0218	--	--	--	--	--	--	--
6/2/15 4:45	15	6,233.0	15.0	0.0491	90	1500	73.6	1450	1380	0.0218	--	--	--	8.01	7.81	6	0.3
6/22/15 4:00		6,712.0	14.0	0.0491	85	1500	73.6	1450	1310	0.0218	--	--	--	--	--	10	0.2
Average			15.6		87	1,976	97.0	1,465	1,401		63	1552	34	8.0	8.0	87.9	1.5

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.
- 6 System down upon arrival, system modified to extract from wells EX-1 through EX-7, system re-started upon departure.
- 7 System down upon arrival, replaced switch on combustion blower, system re-started upon departure.
- 8 System down upon arrival, system re-started upon departure.
- 9 System down upon arrival, due to scheduled groundwater sampling event system remained down upon departure.
- 10 System down upon arrival, system modified to extract from wells EX-1, EX-5 and EX-6, system re-started upon departure.
- 11 System down upon arrival, system remained down upon departure to evaluate pulse operation and second quarter groundwater sampling.
- 12 System down upon arrival, system re-started to obtain air and water samples. System modified to extract from wells EX-3, EX-6, MW-5A, and MW-6A. Sewer system observed to be backed up, therefore, maintenance to be completed prior to continuous system operation. System manually shutdown upon departure.
- 13 System down upon arrival, system re-started for continuous operation.
- 14 System modified to extract from wells EX-1, EX-6, MW-5A and MW-6A.
- 15 System modified to extract from wells EX-1, MW-5A and MW-6A.

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
10/2/14 6:48	5	0.02	9.02	0.56	8.82	3.39	9.35	0.40	8.71	0.10	9.09	0.37	9.14
10/20/14 10:00	6	--	--	--	--	--	--	--	--	--	--	--	--
11/3/14 7:00	7	0.01	8.71	0.50	8.43	12.12	8.91	0.75	7.94	0.60	8.48	0.34	8.55
11/18/14 6:00	8	--	--	--	--	--	--	--	--	--	--	--	--
12/4/14 5:45	9	0.00	6.42	0.07	6.11	1.50	7.63	0.65	6.29	0.70	7.08	0.95	--
12/16/14 5:30		0.00	5.12	0.34	4.77	9.40	6.33	--	--	1.65	5.65	*0.35	5.12
1/5/15 7:15	7	0.00	7.10	0.11	6.79	4.40	8.17	0.99	6.23	1.75	6.11	0.47	6.44
1/19/15 6:00	7	--	--	--	--	--	--	--	--	--	--	--	--
2/2/15 5:55	7	0.00	7.71	0.10	7.38	4.77	8.65	0.85	6.99	0.31	6.90	0.45	7.13
2/16/15 6:00	10	0.00	6.95	0.10	6.62	3.30	7.89	1.05	6.07	1.68	5.58	0.59	6.01
3/10/15 5:05	11	0.00	7.66	0.05	7.27	1.93	7.88	--	--	0.99	6.71	0.16	7.06
3/23/15 7:00	12	--	--	--	--	--	--	--	--	--	--	--	--

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
5/5/15 5:00	13	--	--	--	--	--	--	--	--	--	--	--	--
5/20/15 5:45	14	--	--	--	--	--	--	--	--	--	--	--	--
5/21/15 5:10		--	--	--	--	--	--	--	--	--	--	--	--
6/2/15 4:45	15	0.00	8.29	0.00	7.88	0.00	8.40	--	--	--	--	--	--
6/22/15 4:00		0.00	8.45	0.28	8.05	0.02	8.54	0.66	8.95	--	--	--	--
Average		0.00		0.25		2.95		0.61		0.72		0.42	
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).													
5 System down upon arrival, system modified to extract from wells EX-1 through EX-7, system re-started upon departure.													
6 System down upon arrival, switch to combustion blower repaired, system re-started upon departure.													
7 System down upon arrival system re-started upon departure.													
8 System down upon arrival system remained down upon departure due to scheduled groundwater monitoring event.													
9 System modified to extract from wells EX-1, EX-5 and EX-6, system down upon arrival and re-started upon departure.													
10 System down upon arrival and re-started upon departure, system modified to extract from wells EX-1 and EX-6 (both valves modified to 50% open); well EX-5 remained 100% open.													
11 System down upon arrival, system modified to extract from wells EX-1 and EX-5 with valves 100% open, system re-started upon departure.													
12 System temporarily shutdown due to lack of project funding.													

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
<p>13 System down upon arrival, site visit completed to set up the system to extract from EX-3, EX-6, MW-5A, and MW-6A. Sewer backed up, therefore, maintenance to be completed and system remained down upon departure.</p> <p>14 System down upon arrival, system re-started for continuous operation.</p> <p>15 System modified to extract from wells EX-1, MW-5A, and MW-6A, therefore, no induced vacuum readings were obtained on those wells.</p>													

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	16.0	ASYS INF A EFF	88741-01 88741-02	5,900 <20	1.0 <0.20	<0.70 <0.20	<0.70 <0.25	<0.70 <0.20	1.8 <0.20
08/04/14		7:40	98.2	95.1	85	15.0	ASYS INF A EFF	88839-01 88839-02	3,800 <20	4.0 <0.20	<0.50 <0.20	0.71 <0.25	<0.50 <0.20	1.4 <0.20
09/08/14		8:10	127.6	120.3	100	12.0	ASYS INF A EFF	89089-01 89089-02	410 <20	0.45 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	0.80 <0.20
10/02/14	2	7:30	137.4	130.1	98	12.0	ASYS INF A EFF	89311-01 89311-02	140 <20	0.36 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	0.64 <0.20
11/03/14		7:40	127.6	122.5	90	14.0	ASYS INF A EFF	89569-01 89569-02	150 <20	0.38 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	0.48 <0.20
12/04/14		7:05	98.2	94.2	90	20.0	ASYS INF A EFF	89811-01 89811-02	85 <20	<0.20 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	<0.20 <0.20
01/05/15		15:15	73.6	73.1	72	19.0	ASYS INF A EFF	90047-01 90047-02	<20 <20	0.45 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	0.39 <0.20
02/02/15		6:53	85.9	84.0	80	17.0	ASYS INF A EFF	90256-01 90256-02	24 <20	0.38 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	0.40 <0.20
03/10/15		7:25	73.6	72.3	78	20.0	ASYS INF A EFF	90502-01 90502-02	22 <20	<0.20 <0.20	<0.20 <0.20	<0.25 <0.25	<0.20 <0.20	0.52 <0.20
05/05/15	3	7:07	78.5	76.8	80	14.5	ASYS INF A EFF	STR15050647-01A STR15050646-01A	110 <20	0.56 <0.20	<0.20 <0.20	0.20 <0.20	<0.20 <0.20	<0.20 <0.20
06/02/15	4	5:35	73.6	70.7	90	15.0	ASYS INF A EFF	STR15060351-04A STR15060343-02A	<20 <20	0.20 <0.20	<0.20 <0.20	<0.20 <0.20	<0.20 <0.20	0.24 <0.20

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

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 extracting from extraction wells EX-2 through EX-7.
- 2 DPE extracting from extraction wells EX-1 through EX-7.
- 3 DPE extracting from extraction wells EX-3, EX-6, MW-5A and MW-6A.
- 4 DPE extracting from extraction wells EX-1, MW-5A and MW-6A.

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	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	0.015	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	0.014	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	0.012	0.36	0.004	0.004	98.4	613.5	825.3
10/2/14	2	7:30	4,823.0	130.1	210.1	140	0.36	0.64	<20	<0.20	<0.20	3.22	0.005	0.008	0.38	0.004	0.004	88.3	77.2	902.5
11/3/14		7:40	5,265.0	122.5	202.5	150	0.38	0.48	<20	<0.20	<0.20	1.60	0.004	0.006	0.36	0.004	0.004	77.2	29.4	931.9
12/4/14	3	7:05	5,271.0	94.2	174.2	85	0.20	<0.20	<20	<0.20	<0.20	1.00	0.002	0.003	0.31	0.003	0.003	68.5	0.2	932.1
1/5/15			5,873.0	73.1	153.1	20	0.45	0.39	<20	<0.20	<0.20	0.34	0.002	0.002	0.28	0.003	0.003	--	8.7	940.8
2/2/15		6:53	5,926.0	84.0	164.0	24	0.38	0.40	<20	<0.20	<0.20	0.17	0.003	0.003	0.29	0.003	0.003	--	0.4	941.2
3/10/15	4	7:25	5,941.0	72.3	152.3	22	0.20	0.52	<20	<0.20	<0.20	0.15	0.002	0.003	0.27	0.003	0.003	--	0.1	941.3
5/5/15	5	7:07	6,018.0	76.8	156.8	110	0.56	<0.20	<20	<0.20	<0.20	0.46	0.003	0.002	0.28	0.003	0.003	--	1.5	942.7
6/2/15	6	5:35	6,233.0	70.7	150.7	20	0.20	0.24	<20	<0.20	<0.20	0.41	0.002	0.001	0.27	0.003	0.003	--	3.7	946.4

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:

- DPE 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.
- DPE extracting from extraction wells EX-1 through EX-7.
- DPE extracting from extraction wells EX-1, EX-5, and EX-6.
- DPE extracting from extraction wells EX-1 and EX-5, cumulative GRO removed in through 3/23/15 using analytical results obtained on 3/10/15.
- DPE extracting from wells EX-3, EX-6, MW-5A, and MW-6A.
- DPE extracting from wells EX-1, MW-5A, and MW-6A.

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	Ethyl-benzene	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
10/02/14	2	7:25	WINF	STR14100342-01A	<50	0.77	<0.50	<0.50	<0.50	11
		7:19	WGAC1	STR14090942-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:14	WGAC2	STR14090942-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:09	WEFF	STR14100341-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
11/03/14		7:58	WINF	STR14110443-01A	<50	<0.50	<0.50	<0.50	<0.50	13
		7:55	WGAC1	STR14100344-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:50	WGAC2	STR14100344-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:45	WEFF	STR14110441-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50

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	Ethyl-benzene	Total Xylenes	MTBE
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
12/04/14		6:55	WINF	STR14120542-01A	<50	0.98	<0.50	<0.50	<0.50	21
		6:48	WGAC1	STR14120543-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:44	WGAC2	STR14120543-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:40	WEFF	STR14120541-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
01/05/15		7:46	WINF	STR15010644-01A	<50	5.4	<0.50	<0.50	<0.50	29
		7:44	WGAC1	STR15010647-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:41	WGAC2	STR15010647-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:37	WEFF	STR15010641-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
02/02/15		6:47	WINF	STR15020348-01A	<50	2.4	<0.50	<0.50	<0.50	22
		6:44	WGAC1	STR15020349-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:40	WGAC2	STR15020349-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:37	WEFF	STR15020344-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
03/10/15		7:05	WINF	STR15031148-01A	<50	1.5	<0.50	<0.50	<0.50	21
		7:00	WGAC1	STR15031149-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:55	WGAC2	STR15031149-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		6:52	WEFF	STR15031147-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
05/05/15	3	7:32	WINF	STR15050650-01A	96	5.0	<0.50	2.2	2.16	19
		7:28	WGAC1	STR15050650-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:25	WGAC2	STR15050650-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		7:22	WEFF	STR15050645-01A	<50	<0.50	<0.50	<0.50	<0.50	<0.50

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	Ethyl-benzene	Total Xylenes	MTBE
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
06/02/15	4	5:30	WINF	STR15060351-01A	<50	<0.50	<0.50	<0.50	<0.50	7.7
		5:21	WGAC1	STR15060351-02A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:17	WGAC2	STR15060351-03A	<50	<0.50	<0.50	<0.50	<0.50	<0.50
		5:15	WEFF	STR15060343-01A	<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 extracting from extraction wells EX-2 through EX-7.</p> <p>2 DPE extracting from extraction wells EX-1 through EX-7.</p> <p>3 DPE extracting from extraction wells EX-3, EX-6, MW-5A and MW-6A.</p> <p>4 DPE extracting from extraction wells EX-1, MW-5A and MW-6A.</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>
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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	

<p>Legend / Key:</p> <p>Phenols = Pentachlorophenol and 2,3,4,6-Tetrachlorophenol</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. Extended analytical results obtained to comply with groundwater discharge permit requirements.</p>	<p>Analytical Methods /Laboratory:</p> <p>Metals analyzed using EPA Method 200.8</p> <p>Mercury analyzed using EPA Method 245.1</p> <p>Phenols analyzed using EPA Method SW8270C-SIM</p> <p>Cyanide analyzed using EPA Method SM4500-CNE</p> <p>Alpha Analytical, Inc. (California #2019; NELAC #01154CA)</p>
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**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			Mass Removed			Cumulative Mass Removed		
				Totalizer Reading (gallons)	Period (gallons)	Cumulative Flow (gallons)	Average Sewer Discharge Flow Rate (gpm) ^a	Influent	This Period	Cumulative Mass Removed	GRO (µg/L)	Benzene (µg/L)	MTBE (µg/L)	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
10/02/14	2	7:25	4,823.0	458,740	153,370	398,300	4.44	<50	0.77	11	<0.06	0.0011	0.015	0.47	0.0068	0.081
11/03/14		7:58	5,265.0	618,930	160,190	558,490	6.04	<50	<0.50	13	<0.07	<0.001	0.016	0.53	0.0076	0.097
12/04/14	3	6:55	5,271.0	621,440	2,510	561,000	6.97	<50	0.98	21	<0.001	<0.00002	0.0004	0.53	0.0077	0.097
01/05/15		7:46	5,873.0	875,710	254,270	815,270	7.04	<50	5.4	29	<0.106	<0.00677	0.0530	0.64	0.0144	0.150
02/02/15		6:47	5,926.0	898,290	22,580	837,850	7.10	<50	2.4	22	<0.009	<0.00073	0.0048	0.65	0.0152	0.155
03/10/15	4	7:05	5,941.0	904,000	5,710	843,560	6.34	<50	1.5	21	<0.002	<0.00009	0.0010	0.65	0.0153	0.156
03/23/15	5	--	6,015.0	927,780	23,780	867,340	5.36	--	--	--	<0.010	<0.00030	0.0042	0.66	0.0156	0.160
05/05/15	6	7:32	6,018.0	929,200	1,420	868,760	7.89	96	5.0	19	<0.001	<0.00006	0.0002	0.66	0.0156	0.160
06/02/15	7	5:35	6,233.0	979,100	49,900	918,660	3.87	50	<0.50	7.7	<0.030	<0.00115	0.0056	0.69	0.0168	0.166

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 extracting from extraction wells EX-2 through EX-7.

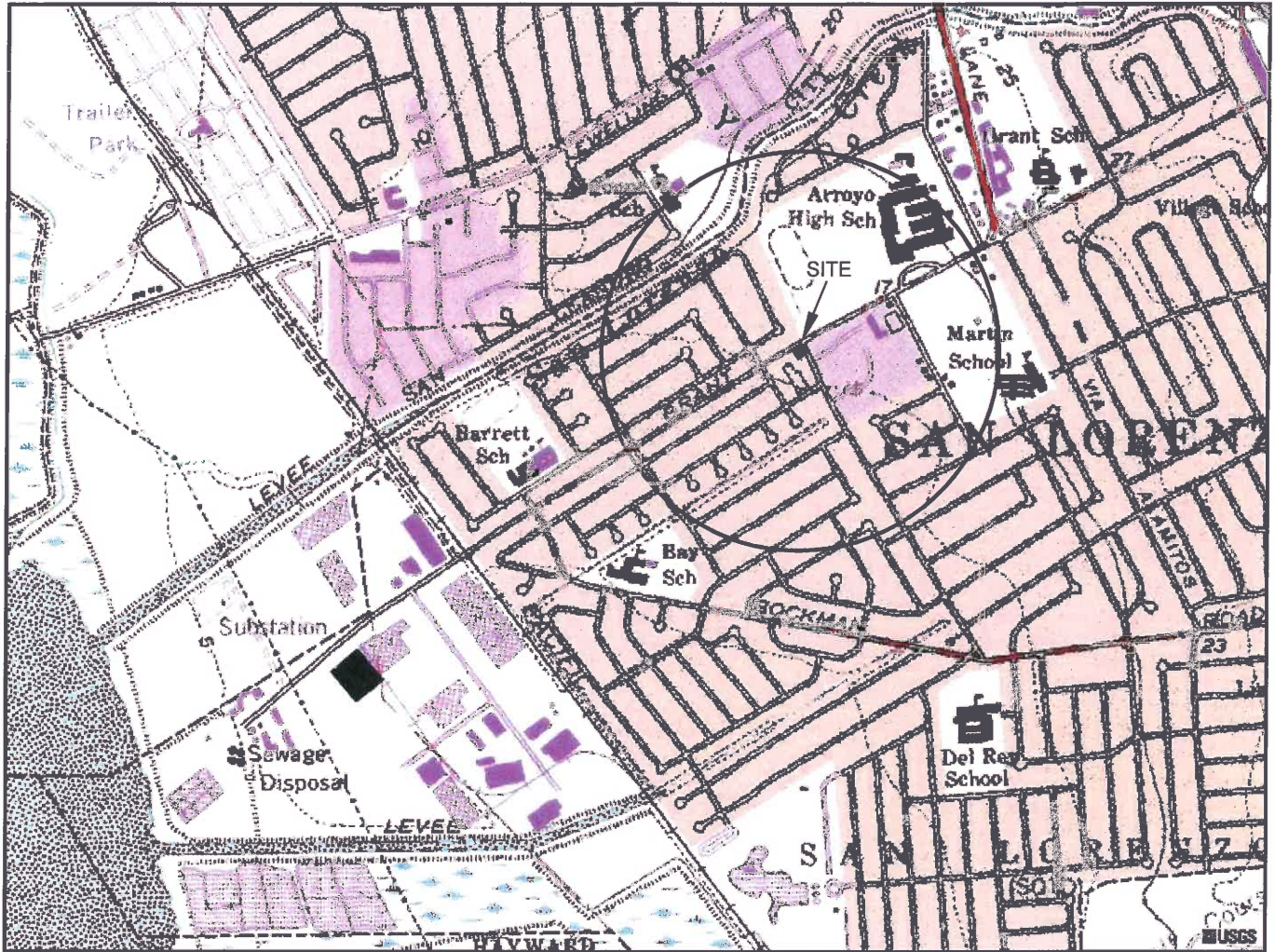
2 DPE extracting from extraction wells EX-1 through EX-7.

3 DPE extracting from extraction wells EX-1, EX-5 and EX-6.

4 DPE extracting from extraction wells EX-1 and EX-5.

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

5	Mass removed is based on analytical results obtained during March 10, 2015 sampling event.
6	System was non-operational between March 23 and May 5, 2015 due to budget constraints. After maintenance, the system was re-started for continuous operation on May 20, 2015, extracting from wells EX-3, EX-6, MW-5A and MW-6A.
7	DPE extracting from extraction wells EX-1, MW-5A and MW-6A.



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



QUADRANGLE LOCATION



APPROXIMATE SCALE



STRATUS
 ENVIRONMENTAL, INC.

FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA

SITE LOCATION MAP

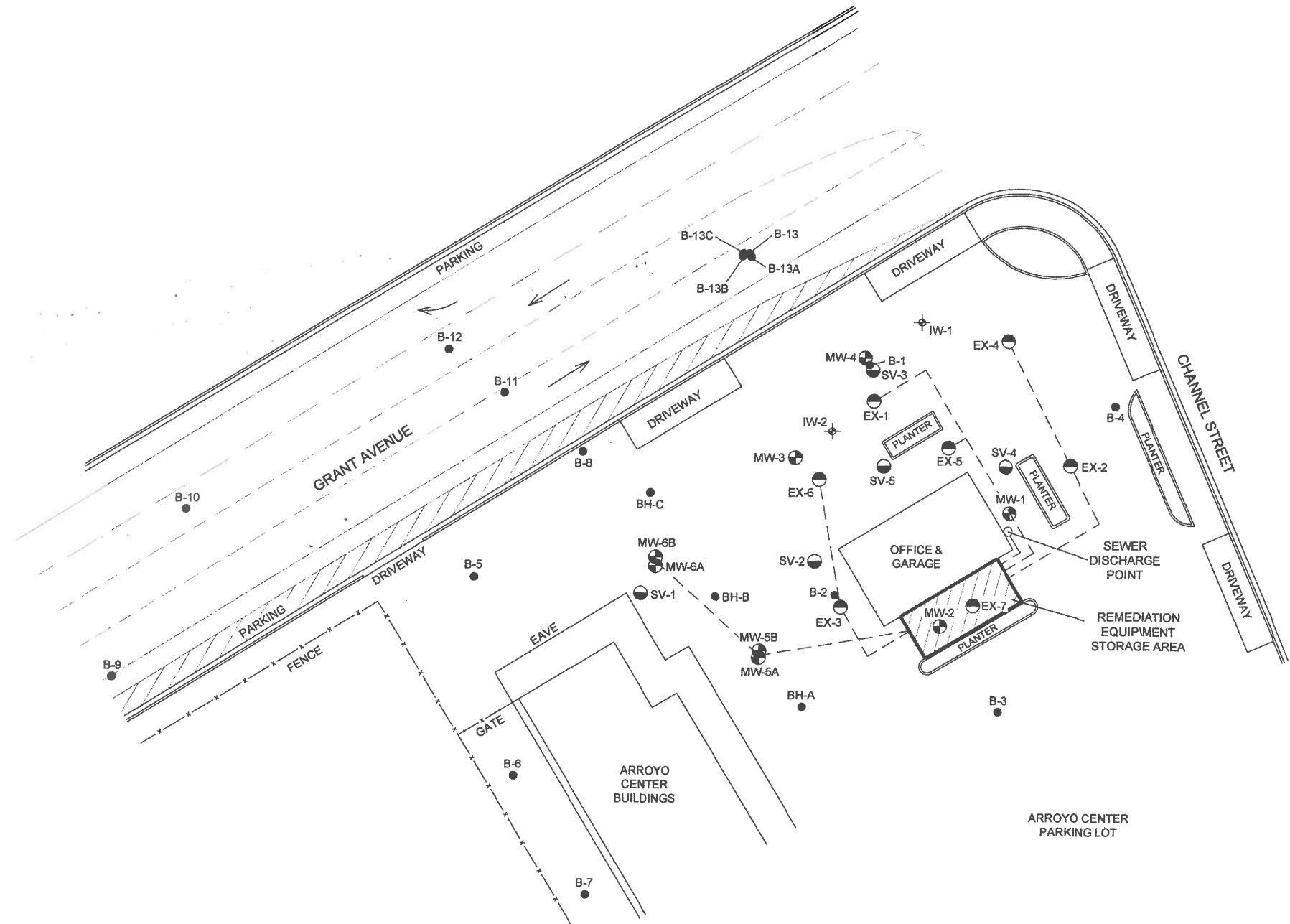
FIGURE

1

PROJECT NO.
 2115-1436-01

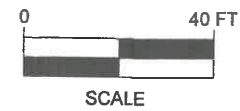


- LEGEND
- ⊕ MW-1 MONITORING WELL LOCATION
 - ⊖ SV-1 VAPOR EXTRACTION WELL LOCATION
 - ⊙ EX-1 EXTRACTION WELL LOCATION
 - ⊕ IW-1 OZONE INJECTION WELL LOCATION
 - B-1 SOIL BORING LOCATION
 - APPROXIMATE LOCATIONS OF ABOVE GROUND CONVEYANCE PIPING



STRATUS
ENVIRONMENTAL, INC.

PATH NAME: Olympic
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: May 15, 2015
 FILENAME: Olympic Siteplan



FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA




SITE PLAN

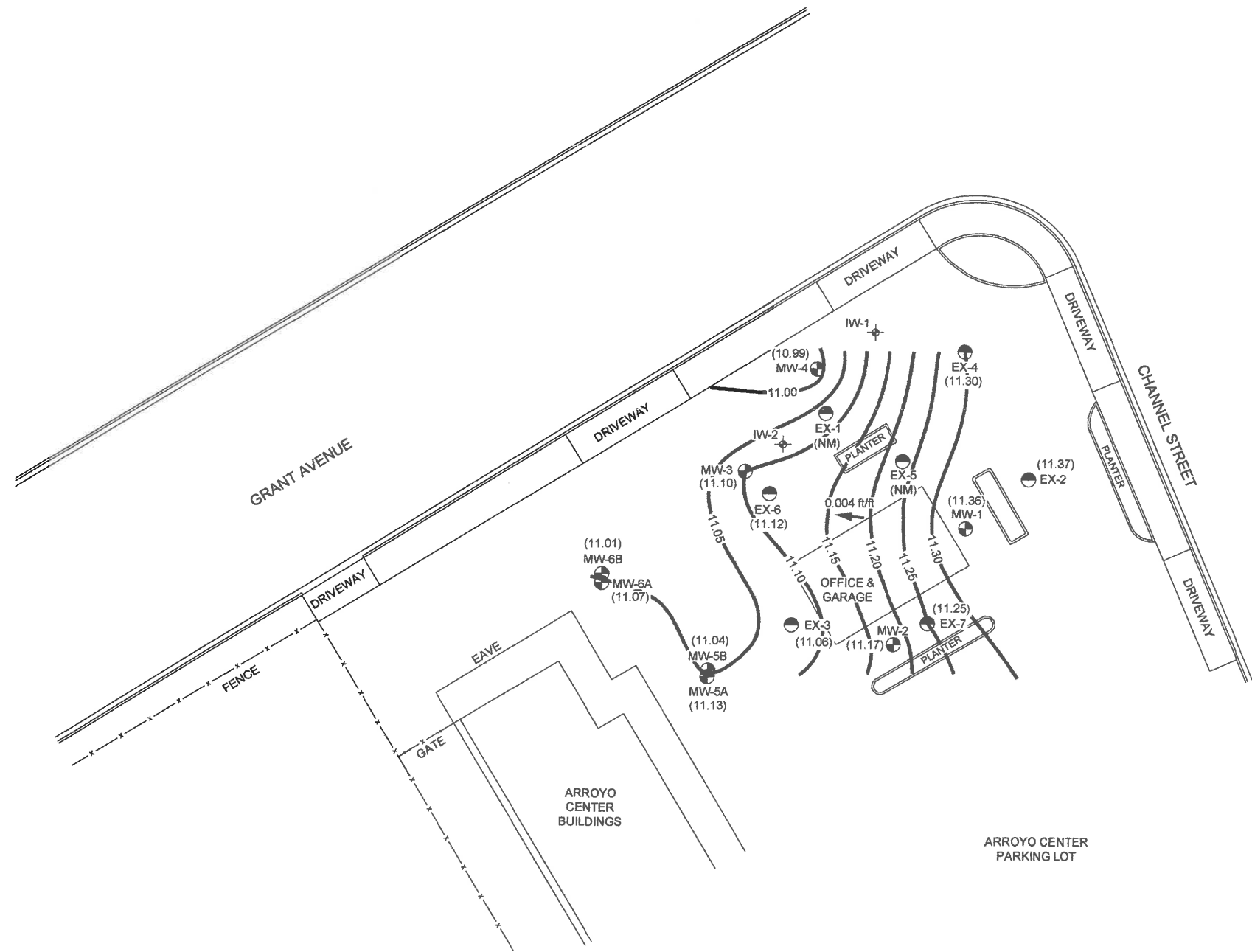
FIGURE

2

PROJECT NO.
 2115-1436-01



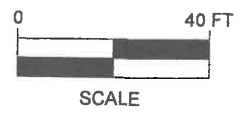
- LEGEND
-  MW-1 MONITORING WELL LOCATION
 -  EX-1 EXTRACTION WELL LOCATION
 -  IW-1 OZONE INJECTION WELL LOCATION
 - (11.36) GROUNDWATER ELEVATION IN FEET RELATIVE TO MSL
 - 11.15— GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MSL
 - ➔ INFERRED GROUNDWATER FLOW DIRECTION
- WELLS MEASURED ON 4/14/15
 MSL = MEAN SEA LEVEL
 (NM) = NOT MEASURED
 NOTE: THE DPE SYSTEM WAS INACTIVE AT THE TIME OF WELL GAUGING.



BASED ON SURVEY PREPARED BY MORROW SURVEYING ON 6/15/11 & UPDATED IN JUNE 2014.

STRATUS
 ENVIRONMENTAL, INC.

PATH NAME: OlympicQuarterly
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: May 18, 2015
 FILENAME: Olympic Quarterly Figures



FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA




GROUNDWATER ELEVATION CONTOUR MAP
 2nd QUARTER 2015

FIGURE
3

PROJECT NO.
 2115-1436-01

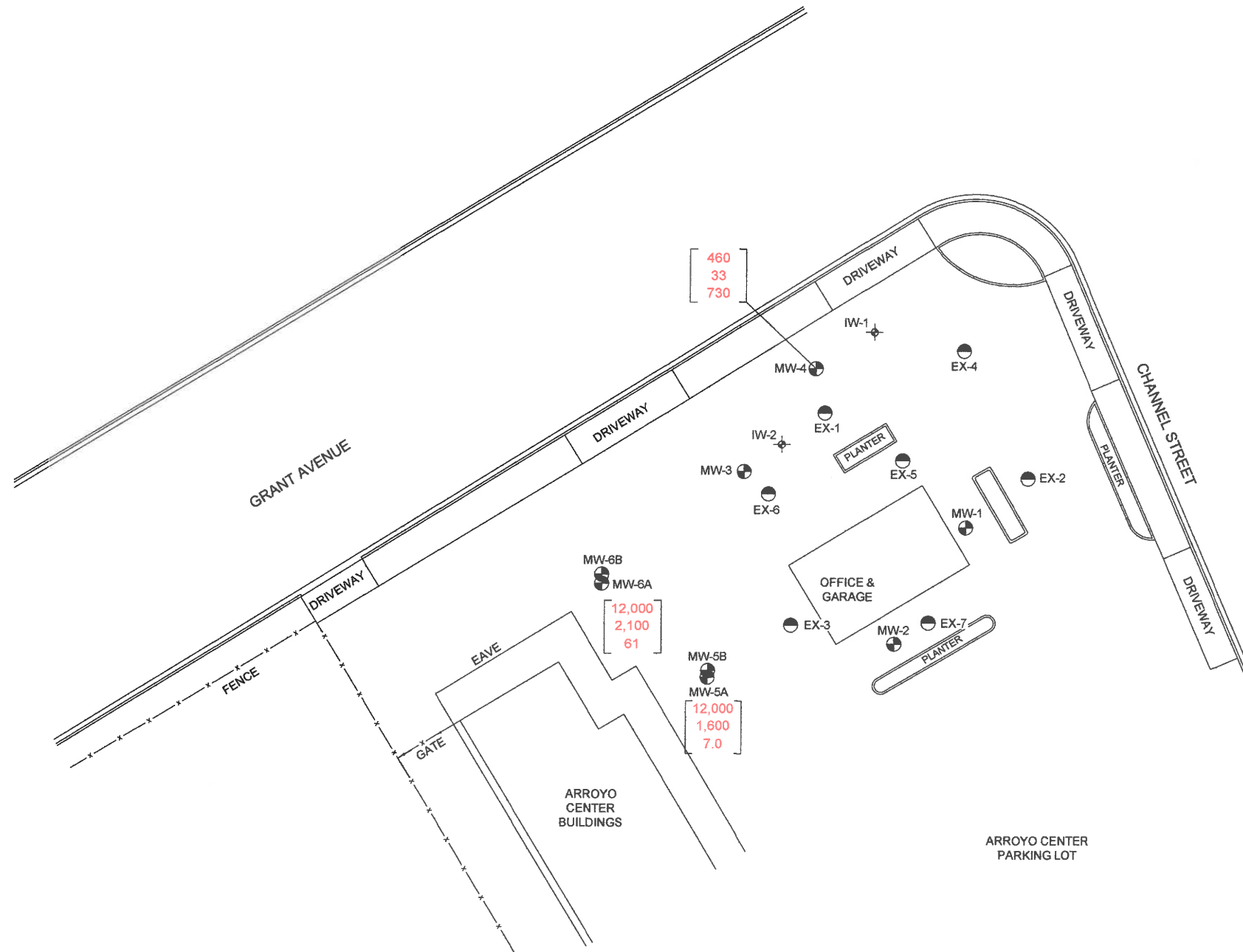


LEGEND

-  MW-1 MONITORING WELL LOCATION
-  EX-1 EXTRACTION WELL LOCATION
-  IW-1 OZONE INJECTION WELL LOCATION

- 460 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN µg/L
- 33 BENZENE CONCENTRATION IN µg/L
- 730 METHYL TERTIARY BUTYL ETHER (MTBE) IN µg/L

WELLS SAMPLED ON 4/14/15
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B
 MTBE & BENZENE ANALYZED BY EPA METHOD SW8260B



BASED ON SURVEY PREPARED BY MORROW SURVEYING ON 6/15/11 & UPDATED IN JUNE 2014.

STRATUS
ENVIRONMENTAL, INC.

PATH NAME: OlympicQuarterly
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: May 18, 2015
 FILENAME: Olympic Quarterly Figures



FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA
 GROUNDWATER ANALYTICAL SUMMARY
 10' DEPTH MONITORING WELLS
 2nd QUARTER 2015

FIGURE

4

PROJECT NO.
 2115-1436-01

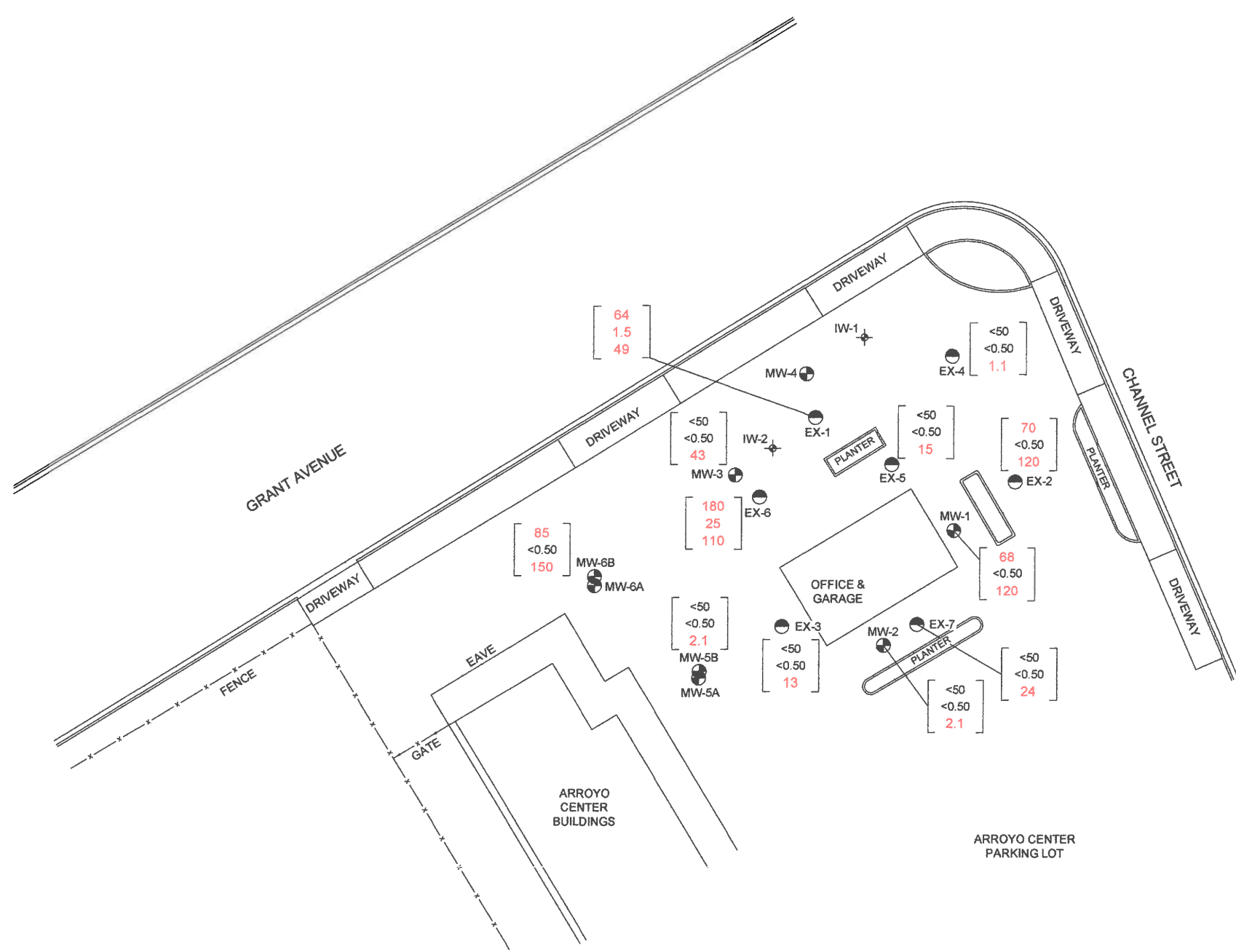


LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION

- 68 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$
- <0.50 BENZENE CONCENTRATION IN $\mu\text{g/L}$
- 120 METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

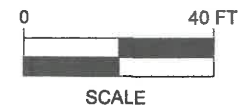
WELLS SAMPLED ON 4/14/15
 GRO ANALYZED BY EPA METHOD SW8015B/SW8260B
 MTBE & BENZENE ANALYZED BY EPA METHOD SW8260B



BASED ON SURVEY PREPARED BY MORROW SURVEYING ON 6/15/11 & UPDATED IN JUNE 2014.

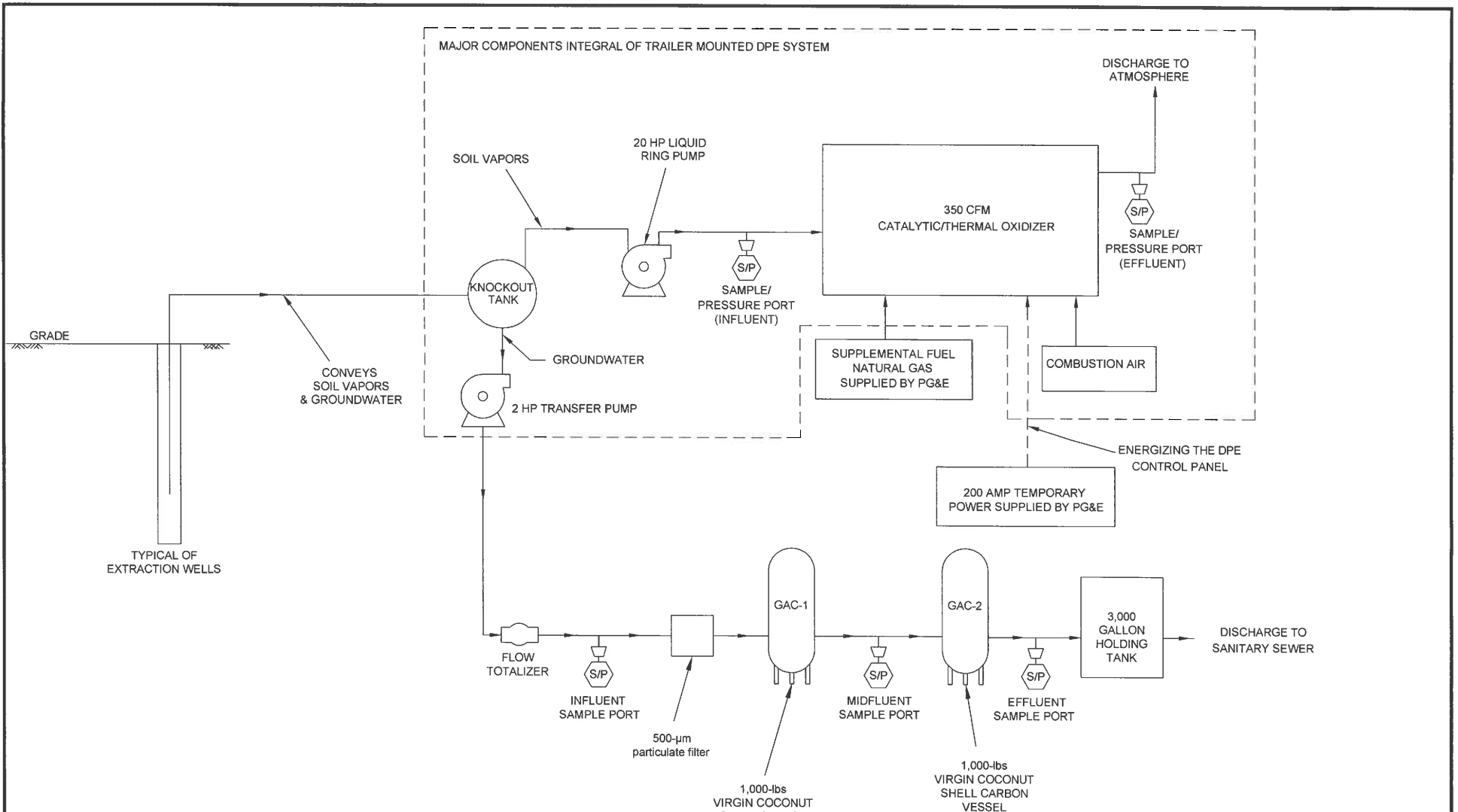
STRATUS
ENVIRONMENTAL, INC.

PATH NAME: OlympicQuarterly
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: May 18, 2015
 FILENAME: Olympic Quarterly Figures



FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA
 GROUNDWATER ANALYTICAL SUMMARY
 20' - 26' DEPTH MONITORING WELLS
 2nd QUARTER 2015

FIGURE
5
 PROJECT NO.
 2115-1436-01



THIS IS A PROCESS FLOW DIAGRAM, THEREFORE INSTRUMENTATION AND CONTROL EQUIPMENT DETAILS ARE NOT SHOWN. INSTRUMENT FUNCTIONS AND INTERACTIONS ARE ALSO NOT SHOWN. EQUIPMENT SIZES ARE NOT PROPORTIONAL AND ARE NOT INDICATIVE OF FINAL SIZES.

DUAL PHASE EXTRACTION SYSTEM
NOT TO SCALE



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

PROCESS FLOW DIAGRAM

FIGURE
6
PROJECT NO.
2153-14930-011

APPENDIX A
FIELD DATA SHEETS



Site Address 1750 Grant Ave
 City San Lorenzo, CA
 Sampled by: T. Hill
 Signature J.T.H.
 Site Number Former Olympic Station
 Project Number 2115-1436-01
 Project PM Scott Billinger
 DATE 4-14-2015

Water Level Data					Purge Volume Calculations					Purge Method				Sample Record			Field Data
Well ID	Time	Depth to Product (feet)	Depth to Water (feet)	Total Depth (feet)	Water column (feet)	Diameter (inches)	Multiplier	3 casing volumes (gallons)	Actual water purged (gallons)	No Purge	Bailer	Pump	other	DTW at sample time (feet)	Sample I.D	Sample Time	DO (mg/L)
MW-1	0445		7.74	24.19	16.45	2	.5	8	8		X			7.27	MW-1	0725	.75
	2 0452		6.83	18.85	12.02	2	.5	6	6		X			7.03	2	0725	1.69
	3 0456		6.85	18.20	11.35	2	.5	6	6		X			7.90	3	0542	.72
MW-4	0845		7.00	9.35	2.35	4	2	5	5		X			7.58	MW-4	0920	1.32
EX-1			MM	MM	-	4	2	-	-		X	X		7.05	EX-1	0838	-
	2 0441		6.77	19.30	12.58	4	2	25	25		X	X		6.72	EX-2	0615	-
EX-3	0454		6.57	19.81	13.24	4	2	26	26		X	X		6.57	EX-3	0640	-
MW-5A	0505		6.81	9.82	3.01	2	.5	1.5	1.5		X			7.37	MW-5A	0655	1.58
MW-5B	0506		6.88	19.44	12.56	2	.5	6	6		X			7.45	MW-5B	0642	4.72
MW-6A	0500		6.98	9.89	2.91	2	.5	1.5	1.5		X			7.56	MW-6A	0605	2.29
MW-6B	0501		6.68	19.80	13.12	2	.5	6.5	6.5		X			6.81	MW-6B	0551	2.11
EX-4	0444		7.80	18.27	11.27	4	2	22	22		X	X		7.00	EX-4	0628	-
	5		MM	MM	-	4	2	-	-		X	X		7.49	5	0850	-
	6 0450		7.17	19.07	11.9	4	2	24	24		X	X		7.17	6	0655	-
EX-7	0449		6.91	19.48	12.67	4	2	25	25		X	X		6.81	EX-7	0647	-

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

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

CALIBRATION DATE
 pH 4-14-2015
 Conductivity
 DO

T:\Forms

* Water left on site
 pumped thru system

ORIGINAL



Site Address 1436 Grant Ave
 City San Lorenzo, CA
 Sampled By: T. Hill
 Signature G.T.H.

Site Number Former Olympic Staff
 Project Number 2115-1436-01
 Project-PM Scott Billinger
 DATE 4-17-2015

Well ID MW-6A 1.5					Well ID MW-6B 6.5						
Purge start time			Odor Yes <input checked="" type="radio"/>		Purge start time			Odor Y <input checked="" type="radio"/>			
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons		
time	0526	19.9	7.07	329	0	time	0536	19.2	7.27	1392	0
time	0529	19.2	7.14	329	1	time	0541	19.6	7.25	1355	3.5
time	0531	17.9	7.13	321	1.5	time	0546	19.8	7.26	1342	6.5
time	Dry @ Full Purge				1.5	time					
purge stop time 2.29			ORP 106		purge stop time 2.11			ORP 56			
Well ID MW-5A 6.5					Well ID MW-5B 6						
Purge start time			Odor Y <input checked="" type="radio"/>		Purge start time			Odor Y <input checked="" type="radio"/>			
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons		
time	0617	18.3	7.12	3.58	0	time	0626	18.8	7.72	822	0
time	0621	19.1	7.10	3.64	1	time	0631	19.0	7.36	984	3
time	0625	17.7	7.11	3.66	1.5	time	0635	19.7	7.37	1307	6
time	Dry @ Full Purge				1.5	time					
purge stop time 1.58			ORP 74		purge stop time 4.72			ORP 68			
Well ID MW-2 6					Well ID MW-3 6						
Purge start time			Odor Y <input checked="" type="radio"/>		Purge start time			Odor Y <input checked="" type="radio"/>			
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons		
time	0707	18.9	7.36	984	0	time	0727	17.9	7.02	103.5	0
time	0713	19.6	7.25	1233	3	time	0727	18.9	7.04	115.6	3
time	0717	19.3	7.29	1269	6	time	0732	19.2	7.03	121.9	6
time						time					
purge stop time 1.67			ORP 58		purge stop time .72			ORP 317			
Well ID MW-1					Well ID MW-4 slight green						
Purge start time			Odor Y <input checked="" type="radio"/>		Purge start time			Odor Y <input checked="" type="radio"/>			
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons		
time	0707	16.0	7.15	251	0	time	0850	19.7	7.29	1080	0
time	0712	17.3	7.15	160.6	4	time	0855	19.2	7.18	1113	2.5
time	0717	18.4	7.18	166.8	8	time	Dry @ 2.5		Dry		
time						time					
purge stop time .75			ORP 309		purge stop time 1.32			ORP 74			

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

ORIGINAL

Date: 5-5-15
Onsite Time: 0500
Offsite Time: 0808

Technician: CHILL
Project Engineer: Debbie
Weather Conditions: Clear
Ambient Temperature: 70

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"/>
Hour Meter Reading:	<u>6018</u>
Totalizer Reading on DPE Unit:	<u>929200</u>
Chart Recorder Paper Replaced:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1494</u>
% Dilution Valve Open:	<u>10%</u>
If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	<u>2319/55/211</u>
pH Meter Calibration	<u>5-1-15</u>

Field Measurements				
Parameter	Influent (Total)	System-Influent	Effluent	Comments
Differential Pressure, "wc				<div style="border: 1px solid black; border-radius: 50%; padding: 10px;"> Discharge To Sewer Backing up Need To get Sewer cleaned Full Distance </div>
Air Velocity, FPM		<u>1600</u>		
Pipe Diameter, inches		<u>3</u>		
Air Flow Rate, cfm				
Applied Vacuum, "WC/"Hg	<u>14.5" Hg</u>			
Temperature, deg F		<u>80</u>	<u>1400</u>	
PID Readings, ppmv		<u>25</u>	<u>2.5</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>0</u>				MW-2		
EX-3	<u>100</u>				MW-3		
EX-4	<u>0</u>				MW-4		
EX-5	<u>0</u>				MW-5A		
EX-6	<u>100</u>				MW-6A		
EX-7	<u>0</u>						
MW5A	<u>100</u>			<u>1' off</u>			
MW6A	<u>100</u>			<u>1' off</u>			

Bottom

**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	5515 0707	W INF	5-5-14 0732
A EFF	) 0705	W GAC1	) 0728
		W GAC2	) 0725
		W EFF	) 0722

*JWIC
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
PH
JWIC = 7.49
EFF = 7.96

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: 5/20/15
Onsite Time: 0545
Offsite Time: 0800

Technician: PHILL
Project Engineer: D. Brown
Weather Conditions: Cloudy
Ambient Temperature: 50

System Information			
System Status Upon Arrival:	Operational <input type="checkbox"/>	Non-Operational <input checked="" type="checkbox"/>	
System Status Upon Departure:	Operational <input checked="" type="checkbox"/>	Non-Operational <input type="checkbox"/>	
Hour Meter Reading:	<u>6059</u>		
Totalizer Reading on DPE Unit:	<u>942300</u>	Chart Recorder Paper Replaced <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Combustion Chamber Operating Temperature:	<u>1450</u>	% Dilution Valve Open: <u>100</u>	
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F): <u>685/65/2"</u>	
		pH Meter Calibration	

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1450</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC/"Hg	<u>15" Hg</u>						
Temperature, deg F		<u>80</u>					
PID Readings, ppmv		<u>40</u>	<u>1.3</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		
EX-2	<u>0</u>				MW-2		
EX-3	<u>100</u>				MW-3		
EX-4	<u>0</u>				MW-4		
EX-5	<u>0</u>				MW-5A		
EX-6	<u>100</u>				MW-6A		
EX-7	<u>0</u>						
MW 07A	<u>100</u>						
MW 07B	<u>100</u>						

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



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.

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

ORIGINAL

Date: 5-21-15
Onsite Time: 0510
Offsite Time: 0530

Technician: CHILL
Project Engineer: Dibbins
Weather Conditions: clear
Ambient Temperature: 65

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>6083</u>		
Totalizer Reading on DPE Unit:	<u>947210</u>	Chart Recorder Paper Replaced	<input type="checkbox"/> Yes <input type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1450</u>	% Dilution Valve Open:	_____
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	_____
		pH Meter Calibration	_____

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1500</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/Hg	<u>15" Hg</u>						
Temperature, deg F		<u>90</u>					
PID Readings, ppmv							
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>100</u>				MW-1		
EX-2					MW-2		
EX-3					MW-3		
EX-4					MW-4		
EX-5					MW-5A		
EX-6	<u>100</u>				MW-6A		
EX-7							
MW-5A	<u>100</u>						
MW-6A	<u>100</u>						

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



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.

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



Date: 6.2-15
 Onsite Time: 0445
 Offsite Time: 0600

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>6233</u>		
Totalizer Reading on DPE Unit:	<u>979100</u>	Chart Recorder Paper Replaced	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1450</u>	% Dilution Valve Open:	<u>0</u>
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	<u>5.30-15</u>
		pH Meter Calibration	

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1500</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/Hg	<u>15" Hg</u>						
Temperature, deg F		<u>90</u>	<u>1380</u>				
PID Readings, ppmv		<u>6</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>100</u>				MW-1	<u>0</u>	<u>8.29</u>
EX-2					MW-2	<u>0</u>	<u>7.88</u>
EX-3					MW-3	<u>0</u>	<u>8.40</u>
EX-4					MW-4	<u>0</u>	
EX-5					MW-5A	<u>on system</u>	
EX-6					MW-6A	<u>on system</u>	
EX-7							
<u>MW 5A</u>	<u>100</u>						
<u>MW 6A</u>	<u>100</u>						

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



Sampling Information			
Sample ID	Date & Time	Sample ID	Date & Time
A SYS INF	6/21/05 0535	W INF	6/21/05 0530
A EFF	) 0540	W GAC1	) 0521
		W GAC2	) 0517
		W EFF	) 0515

INF 8.01 PH EFF 7.81 PH

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**



Date: 6/22/15
 Onsite Time: 0400
 Offsite Time: 0500

Technician: PHILL
 Project Engineer: Delmar
 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>6712</u>		
Totalizer Reading on DPE Unit:	<u>1079330</u>	Chart Recorder Paper Replaced	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Combustion Chamber Operating Temperature:	<u>1450</u>	% Dilution Valve Open:	<u>0</u>
		If open, dilution air flowrate, (fpm/cfm) and Temp (deg F):	
		pH Meter Calibration	

Field Measurements							
Parameter	Influent (Total)	System-Influent	Effluent	Comments			
Differential Pressure, "wc							
Air Velocity, FPM		<u>1500</u>					
Pipe Diameter, inches		<u>3</u>					
Air Flow Rate, cfm							
Applied Vacuum, "WC"/Hg	<u>14" Hg</u>						
Temperature, deg F		<u>85</u>	<u>1310</u>				
PID Readings, ppmv		<u>10</u>	<u>0.2</u>				
Other Readings/Measurements							
Well ID	% Open	PID	Vacuum @ Wellhead	Stinger Depth	Well ID	Induced Vacuum "WC"/Hg	DTW
EX-1	<u>100</u>				MW-1	<u>0</u>	<u>8.45</u>
EX-2	<u>0</u>				MW-2	<u>-0.28</u>	<u>8.05</u>
EX-3	<u>0</u>				MW-3	<u>-0.02</u>	<u>8.54</u>
EX-4	<u>0</u>				MW-4	<u>-0.66</u>	<u>8.95</u>
EX-5	<u>0</u>				MW-5A	<u>-</u>	
EX-6	<u>0</u>				MW-6A	<u>-</u>	
EX-7	<u>0</u>						
MW 5A	<u>100</u>						
MW 6A	<u>100</u>						

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



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 : 04/15/15

Job: 2115-1436-01/Former 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-1					
Lab ID : STR15041540-01A	TPH-P (GRO)	68	50 µg/L	04/20/15	04/20/15
Date Sampled 04/14/15 07:25	Methyl tert-butyl ether (MTBE)	120	0.50 µg/L	04/20/15	04/20/15
	Benzene	ND	0.50 µg/L	04/20/15	04/20/15
	Toluene	ND	0.50 µg/L	04/20/15	04/20/15
	Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
	m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
	o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID : MW-2					
Lab ID : STR15041540-02A	TPH-P (GRO)	ND	50 µg/L	04/20/15	04/20/15
Date Sampled 04/14/15 07:25	Methyl tert-butyl ether (MTBE)	2.1	0.50 µg/L	04/20/15	04/20/15
	Benzene	ND	0.50 µg/L	04/20/15	04/20/15
	Toluene	ND	0.50 µg/L	04/20/15	04/20/15
	Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
	m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
	o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID : MW-3					
Lab ID : STR15041540-03A	TPH-P (GRO)	ND	50 µg/L	04/20/15	04/20/15
Date Sampled 04/14/15 05:42	Methyl tert-butyl ether (MTBE)	43	0.50 µg/L	04/20/15	04/20/15
	Benzene	ND	0.50 µg/L	04/20/15	04/20/15
	Toluene	ND	0.50 µg/L	04/20/15	04/20/15
	Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
	m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
	o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID : MW-4					
Lab ID : STR15041540-04A	TPH-P (GRO)	460	200 µg/L	04/20/15	04/20/15
Date Sampled 04/14/15 09:20	Methyl tert-butyl ether (MTBE)	730	1.0 µg/L	04/20/15	04/20/15
	Benzene	33	1.0 µg/L	04/20/15	04/20/15
	Toluene	ND	1.0 µg/L	04/20/15	04/20/15
	Ethylbenzene	ND	1.0 µg/L	04/20/15	04/20/15
	m,p-Xylene	ND	1.0 µg/L	04/20/15	04/20/15
	o-Xylene	ND	1.0 µg/L	04/20/15	04/20/15
Client ID : MW-5A					
Lab ID : STR15041540-05A	TPH-P (GRO)	12,000	1,000 µg/L	04/20/15	04/20/15
Date Sampled 04/14/15 06:55	Methyl tert-butyl ether (MTBE)	7.0	5.0 µg/L	04/20/15	04/20/15
	Benzene	1,600	5.0 µg/L	04/20/15	04/20/15
	Toluene	5.2	5.0 µg/L	04/20/15	04/20/15
	Ethylbenzene	940	5.0 µg/L	04/20/15	04/20/15
	m,p-Xylene	270	5.0 µg/L	04/20/15	04/20/15
	o-Xylene	ND	5.0 µg/L	04/20/15	04/20/15



Alpha Analytical, Inc.

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Client ID :	MW-5B					
Lab ID :	STR15041540-06A	TPH-P (GRO)	ND	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 06:42	Methyl tert-butyl ether (MTBE)	2.1	0.50 µg/L	04/20/15	04/20/15
		Benzene	ND	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID :	MW-6A					
Lab ID :	STR15041540-07A	TPH-P (GRO)	12,000	2,000 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 06:05	Methyl tert-butyl ether (MTBE)	61	10 µg/L	04/20/15	04/20/15
		Benzene	2,100	10 µg/L	04/20/15	04/20/15
		Toluene	ND	10 µg/L	04/20/15	04/20/15
		Ethylbenzene	880	10 µg/L	04/20/15	04/20/15
		m,p-Xylene	180	10 µg/L	04/20/15	04/20/15
		o-Xylene	10	10 µg/L	04/20/15	04/20/15
Client ID :	MW-6B					
Lab ID :	STR15041540-08A	TPH-P (GRO)	85	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 05:51	Methyl tert-butyl ether (MTBE)	150	0.50 µg/L	04/20/15	04/20/15
		Benzene	ND	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID :	EX-1					
Lab ID :	STR15041540-09A	TPH-P (GRO)	64	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 08:38	Methyl tert-butyl ether (MTBE)	49	0.50 µg/L	04/20/15	04/20/15
		Benzene	1.5	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID :	EX-2					
Lab ID :	STR15041540-10A	TPH-P (GRO)	70	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 06:15	Methyl tert-butyl ether (MTBE)	120	0.50 µg/L	04/20/15	04/20/15
		Benzene	ND	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID :	EX-3					
Lab ID :	STR15041540-11A	TPH-P (GRO)	ND	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 06:40	Methyl tert-butyl ether (MTBE)	13	0.50 µg/L	04/20/15	04/20/15
		Benzene	ND	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
Client ID :	EX-4					
Lab ID :	STR15041540-12A	TPH-P (GRO)	ND	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 06:28	Methyl tert-butyl ether (MTBE)	1.1	0.50 µg/L	04/20/15	04/20/15
		Benzene	ND	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15



Alpha Analytical, Inc.

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Client ID : EX-5

Lab ID :	STR15041540-13A	TPH-P (GRO)	ND	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 08:50	Methyl tert-butyl ether (MTBE)	15	0.50 µg/L	04/20/15	04/20/15
		Benzene	ND	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15

Client ID : EX-6

Lab ID :	STR15041540-14A	TPH-P (GRO)	180	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 06:55	Methyl tert-butyl ether (MTBE)	110	0.50 µg/L	04/20/15	04/20/15
		Benzene	25	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	3.1	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15

Client ID : EX-7

Lab ID :	STR15041540-15A	TPH-P (GRO)	ND	50 µg/L	04/20/15	04/20/15
Date Sampled	04/14/15 06:47	Methyl tert-butyl ether (MTBE)	24	0.50 µg/L	04/20/15	04/20/15
		Benzene	ND	0.50 µg/L	04/20/15	04/20/15
		Toluene	ND	0.50 µg/L	04/20/15	04/20/15
		Ethylbenzene	ND	0.50 µg/L	04/20/15	04/20/15
		m,p-Xylene	ND	0.50 µg/L	04/20/15	04/20/15
		o-Xylene	ND	0.50 µg/L	04/20/15	04/20/15

Gasoline Range Organics (GRO) C4-C13

O = Reporting Limits were increased due to sample foaming.

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

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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.



AS

4/22/15

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: STR15041540

Job: 2115-1436-01/Former Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15041540-01A	MW-1	Aqueous	2
15041540-02A	MW-2	Aqueous	2
15041540-03A	MW-3	Aqueous	2
15041540-04A	MW-4	Aqueous	2
15041540-05A	MW-5A	Aqueous	3
15041540-06A	MW-5B	Aqueous	2
15041540-07A	MW-6A	Aqueous	4
15041540-08A	MW-6B	Aqueous	2
15041540-09A	EX-1	Aqueous	2
15041540-10A	EX-2	Aqueous	2
15041540-11A	EX-3	Aqueous	2
15041540-12A	EX-4	Aqueous	2
15041540-13A	EX-5	Aqueous	2
15041540-14A	EX-6	Aqueous	2
15041540-15A	EX-7	Aqueous	2

4/22/15

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:
21-Apr-15

QC Summary Report

Work Order:
15041540

Method Blank

File ID: 15042006.D

Sample ID: MBLK MS09W0420B

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.58		10		96	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.58		10		96	70	130			

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0420B

Analysis Date: 04/20/2015 11:09

Run ID: MSD_09_150420A

Prep Date: 04/20/2015 11:09

Laboratory Control Spike

File ID: 15042005.D

Sample ID: GLCS MS09W0420B

Analyte

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	9.73		10		97	70	130			
Surr: Toluene-d8	9.76		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.82		10		98	70	130			

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0420B

Analysis Date: 04/20/2015 10:43

Run ID: MSD_09_150420A

Prep Date: 04/20/2015 10:43

Sample Matrix Spike

File ID: 15042021.D

Sample ID: 15041540-01AGS

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2290	250	2000	67.71	111	54	143			
Surr: 1,2-Dichloroethane-d4	55.2		50		110	70	130			
Surr: Toluene-d8	46.7		50		93	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0420B

Analysis Date: 04/20/2015 17:11

Run ID: MSD_09_150420A

Prep Date: 04/20/2015 17:11

Sample Matrix Spike Duplicate

File ID: 15042022.D

Sample ID: 15041540-01AGSD

Analyte

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2110	250	2000	67.71	102	54	143	2292	8.1(23)	
Surr: 1,2-Dichloroethane-d4	51.2		50		102	70	130			
Surr: Toluene-d8	48		50		96	70	130			
Surr: 4-Bromofluorobenzene	47.6		50		95	70	130			

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0420B

Analysis Date: 04/20/2015 17:35

Run ID: MSD_09_150420A

Prep Date: 04/20/2015 17:35

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:
21-Apr-15

QC Summary Report

Work Order:
15041540

Method Blank

File ID: 15042006.D

Sample ID: MBLK MS09W0420A

Analyte	Units : µg/L		Run ID: MSD_09_150420A							Qual
	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	
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	9.58		10		96	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.58		10		96	70	130			

Laboratory Control Spike

File ID: 15042004.D

Sample ID: LCS MS09W0420A

Analyte	Units : µg/L		Run ID: MSD_09_150420A							Qual
	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	
Methyl tert-butyl ether (MTBE)	11.2	0.5	10		112	63	137			
Benzene	11.2	0.5	10		112	70	130			
Toluene	11.4	0.5	10		114	80	120			
Ethylbenzene	11.3	0.5	10		113	80	120			
m,p-Xylene	9.98	0.5	10		99.8	65	139			
o-Xylene	9.93	0.5	10		99	70	130			
Surr: 1,2-Dichloroethane-d4	10.5		10		105	70	130			
Surr: Toluene-d8	9.65		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.2		10		92	70	130			

Sample Matrix Spike

File ID: 15042019.D

Sample ID: 15041540-01AMS

Analyte	Units : µg/L		Run ID: MSD_09_150420A							Qual
	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	
Methyl tert-butyl ether (MTBE)	183	1.3	50	122.6	120	56	140			
Benzene	61.7	1.3	50	0	123	67	134			
Toluene	62.6	1.3	50	0	125	38	130			
Ethylbenzene	59.8	1.3	50	0	120	70	130			
m,p-Xylene	52	1.3	50	0	104	65	139			
o-Xylene	52.2	1.3	50	0	104	69	130			
Surr: 1,2-Dichloroethane-d4	58		50		116	70	130			
Surr: Toluene-d8	45.5		50		91	70	130			
Surr: 4-Bromofluorobenzene	45.7		50		91	70	130			

Sample Matrix Spike Duplicate

File ID: 15042020.D

Sample ID: 15041540-01AMSD

Analyte	Units : µg/L		Run ID: MSD_09_150420A							Qual
	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	
Methyl tert-butyl ether (MTBE)	185	1.3	50	122.6	125	56	140	182.6	1.4(40)	
Benzene	59.2	1.3	50	0	118	67	134	61.74	4.3(21)	
Toluene	59.6	1.3	50	0	119	38	130	62.6	4.9(20)	
Ethylbenzene	57.2	1.3	50	0	114	70	130	59.77	4.4(20)	
m,p-Xylene	50	1.3	50	0	99.9	65	139	52.01	4.0(20)	
o-Xylene	49.7	1.3	50	0	99	69	130	52.17	4.8(20)	
Surr: 1,2-Dichloroethane-d4	55.4		50		111	70	130			
Surr: Toluene-d8	46		50		92	70	130			
Surr: 4-Bromofluorobenzene	46.1		50		92	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:
21-Apr-15

QC Summary Report

Work Order:
15041540

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

AMENDED

CA

WorkOrder : STR15041540

Report Due By : 5:00 PM On : 22-Apr-15

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

EDD Required : Yes

Sampled by : Anthony T. Hill

PO :

Cooler Temp	Samples Received	Date Printed
3 °C	15-Apr-15	21-Apr-15

Client's COC # : 12196, 04384

Job : 2115-1436-01/Former Olympic Station

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests								Sample Remarks		
				Alpha	Sub	TAT	TPH/P_W	VOC_W									
STR15041540-01A	MW-1	AQ	04/14/15 07:25	3	0	5	GAS-C	BTEX/M_C									
STR15041540-02A	MW-2	AQ	04/14/15 07:25	3	0	5	GAS-C	BTEX/M_C									
STR15041540-03A	MW-3	AQ	04/14/15 05:42	3	0	5	GAS-C	BTEX/M_C									
STR15041540-04A	MW-4	AQ	04/14/15 09:20	3	0	5	GAS-C	BTEX/M_C									
STR15041540-05A	MW-5A	AQ	04/14/15 06:55	3	0	5	GAS-C	BTEX/M_C									
STR15041540-06A	MW-5B	AQ	04/14/15 06:42	3	0	5	GAS-C	BTEX/M_C									
STR15041540-07A	MW-6A	AQ	04/14/15 06:05	3	0	5	GAS-C	BTEX/M_C									
STR15041540-08A	MW-6B	AQ	04/14/15 05:51	3	0	5	GAS-C	BTEX/M_C									
STR15041540-09A	EX-1	AQ	04/14/15 08:38	3	0	5	GAS-C	BTEX/M_C									
STR15041540-10A	EX-2	AQ	04/14/15 06:15	3	0	5	GAS-C	BTEX/M_C									

Comments: Security seals intact. Frozen ice. Amended on 4/21/15 to fix job # due to login error. JA :

Logged in by:	Signature	Print Name	Company	Date/Time
		JESSICA ALVARADO	Alpha Analytical, Inc.	4/21/15 1255

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

CHAIN-OF-CUSTODY RECORD

**AMENDED
CA**

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

WorkOrder : STR15041540
Report Due By : 5:00 PM On : 22-Apr-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 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 : Anthony T. Hill

PO :
 Client's COC # : 12196, 04384 Job : 2115-1436-01/Former Olympic Station

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
3 °C	15-Apr-15	21-Apr-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	Collection Date	No. of Bottles			Requested Tests								Sample Remarks		
				Alpha	Sub	TAT	TPHP_W	VOC_W									
STR15041540-11A	EX-3	AQ	04/14/15 06:40	3	0	5	GAS-C	BTEX/M_C									
STR15041540-12A	EX-4	AQ	04/14/15 06:28	3	0	5	GAS-C	BTEX/M_C									
STR15041540-13A	EX-5	AQ	04/14/15 08:50	3	0	5	GAS-C	BTEX/M_C									
STR15041540-14A	EX-6	AQ	04/14/15 06:55	3	0	5	GAS-C	BTEX/M_C									
STR15041540-15A	EX-7	AQ	04/14/15 06:47	3	0	5	GAS-C	BTEX/M_C									

Comments: Security seals intact. Frozen ice. Amended on 4/21/15 to fix job # due to login error. JA :

Logged in by:	Signature	Print Name	Company	Date/Time
		JESSICA ALVARADO	Alpha Analytical, Inc.	4/21/15 12:55

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

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 : STR15041540
Report Due By : 5:00 PM On : 22-Apr-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 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 : Anthony T. Hill

PO :
 Client's COC # : 12196, 04384 Job : 2155-1436-01/Former Olympic Station

Cooler Temp	Samples Received	Date Printed
3 °C	15-Apr-15	15-Apr-15

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								
STR15041540-01A	MW-1	AQ 04/14/15 07:25	3 0 5	GAS-C	BTEX/M_C								
STR15041540-02A	MW-2	AQ 04/14/15 07:25	3 0 5	GAS-C	BTEX/M_C								
STR15041540-03A	MW-3	AQ 04/14/15 05:42	3 0 5	GAS-C	BTEX/M_C								
STR15041540-04A	MW-4	AQ 04/14/15 09:20	3 0 5	GAS-C	BTEX/M_C								
STR15041540-05A	MW-5A	AQ 04/14/15 06:55	3 0 5	GAS-C	BTEX/M_C								
STR15041540-06A	MW-5B	AQ 04/14/15 06:42	3 0 5	GAS-C	BTEX/M_C								
STR15041540-07A	MW-6A	AQ 04/14/15 06:05	3 0 5	GAS-C	BTEX/M_C								
STR15041540-08A	MW-6B	AQ 04/14/15 05:51	3 0 5	GAS-C	BTEX/M_C								
STR15041540-09A	EX-1	AQ 04/14/15 08:38	3 0 5	GAS-C	BTEX/M_C								
STR15041540-10A	EX-2	AQ 04/14/15 06:15	3 0 5	GAS-C	BTEX/M_C								

Comments: Security seals intact. Frozen ice. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	4/15/15 10:35

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

CHAIN-OF-CUSTODY RECORD

CA

WorkOrder : STR15041540
Report Due By : 5:00 PM On : 22-Apr-15

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
Scott Bittinger	(530) 676-2062 x	sbittinger@stratusinc.net

EDD Required : Yes

Sampled by : Anthony T. Hill

PO :
 Client's COC # : 12196, 04384 Job : 2155-1436-01/Former Olympic Station

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
3 °C	15-Apr-15	15-Apr-15

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									
STR15041540-11A	EX-3	AQ	04/14/15 06:40	3	0	5	GAS-C	BTEX/M_C									
STR15041540-12A	EX-4	AQ	04/14/15 06:28	3	0	5	GAS-C	BTEX/M_C									
STR15041540-13A	EX-5	AQ	04/14/15 08:50	3	0	5	GAS-C	BTEX/M_C									
STR15041540-14A	EX-6	AQ	04/14/15 06:55	3	0	5	GAS-C	BTEX/M_C									
STR15041540-15A	EX-7	AQ	04/14/15 06:47	3	0	5	GAS-C	BTEX/M_C									

Comments: Security seals intact. Frozen ice. :

Logged in by:	<u>Signature</u> 	<u>Print Name</u> JESSICA ALVARADO	<u>Company</u> Alpha Analytical, Inc.	<u>Date/Time</u> 4/15/15 10:30
----------------------	----------------------	--	--	--

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 Environmental
 Attn: Scott Bittinger
 Address: 3330 Cameron Park dr
 City, State, Zip: Cameron Park, CA, 95682
 Phone Number: 530-676-6004 Fax: 530-676-6005



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Phone: 775-355-1044
 Fax: 775-355-0406

Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 916-366-9089
 Phone: 702-281-4848
 Phone: 714-386-2901

12196

Page # 1 of 2

Company: Former Olympic Station **Job #** 2115-1436-01 **Report Attention/Project Manager:** Scott Bittinger
Address: 1430 Grant Ave **Job Name:** _____ **Email Address:** sbittinger@stratus.net
City, State, Zip: San Lorenzo, CA **P.O. #:** _____ **Phone #:** _____ **Cell #:** _____
QC Deliverable Info:
 EDD Required? Yes No EDF Required? Yes No
 Global ID: T0600102256
 Data Validation Level: III or IV

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

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	GRD by 8015 M	BTEX by 8260 B	MTBE by 8260 B	Analysis Requested	Remarks
0725	4/14	AQ	STR15041510	MW-1	STD	N	3V	X	X	X		
0725				MW-2								
0542				MW-3								
0920				MW-4								
0655				MW-5A								
0642				MW-5B								
0605				MW-6A								
0551				MW-6B								

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: Anthony T. Hill
 Relinquished by: (Signature/Affiliation): A.T. Hill Date: 4-14-2015 Time: 1209
 Received by: (Signature/Affiliation): Maryssa T Date: 4-14-15 Time: 1209
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): _____ Date: 4/15/15 Time: 1020
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): _____ Date: _____ Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other ** 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.

Company: Stratus Environmental
 Attn: Scott Bittinger
 Address: 3330 Cameron Park Dr
Cameron Park, CA 95682
 Phone Number: 530-676-6004 Fax: 530-676-6005



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
 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: 714-386-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

04384

Page # 2 of 2

Company: Former Olympic Station Job # 2115-1436-01 Name: Scott Bittinger
 Address: 1436 Grant Ave Job Name: _____ Email Address: Sbittinger@stratus.net
 City, State, Zip: Sun Lorenzo, CA P.O. #: _____ Phone #: _____ Cell #: _____
 Consultant/ Client Info: Job and Purchase Order Info: Report Attention/Project Manager: QC Deliverable Info:
 EDD Required? Yes / No EDF Required? Yes / No
 Global ID: T0600107256
 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?				
						Yes	No				
0838	4/14	AQ	SIK15041540-01A	EX-1	STD	3V	X	X	X	X	
0615				EX-2							
0640				EX-3							
0628				EX-4							
0850				EX-5							
0655				EX-6							
0647				EX-7							

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>Anthony T. Hill</u>	Date: <u>4/14/2015</u>	Time: <u>1209</u>	Received by: (Signature/Affiliation): <u>Maryssa T</u>	Date: <u>4-14-15</u>	Time: <u>1209</u>
Relinquished by: (Signature/Affiliation): <u>A.T.H.</u>	Date:	Time:	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>4/15/15</u>	Time: <u>1020</u>
Relinquished by: (Signature/Affiliation):	Date:	Time:	Received by: (Signature/Affiliation):	Date:	Time:

* Key: AQ - Aqueous OT - Other So-Soil WA - Waste ** B - Brass L - Liter O - Orbo OT - Other P - Plastic S-Soil Jar T - Tedlar V - VOA
 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: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/06/15

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 : Oly A Sys INF				
Lab ID : STR15050647-01A				
Date Sampled 05/05/15 07:07				
TPH-P (GRO)	110	20 mg/m ³	05/07/15 10:42	05/12/15
Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m ³	05/07/15 10:42	05/12/15
Benzene	0.56	0.20 mg/m ³	05/07/15 10:42	05/12/15
Toluene	ND	0.20 mg/m ³	05/07/15 10:42	05/12/15
Ethylbenzene	0.20	0.20 mg/m ³	05/07/15 10:42	05/12/15
m,p-Xylene	ND	0.20 mg/m ³	05/07/15 10:42	05/12/15
o-Xylene	ND	0.20 mg/m ³	05/07/15 10:42	05/12/15

Gasoline Range Organics (GRO) C4-C13

Note: Concentrations of air in a Tedlar Bag are at 25 degrees Celsius and 25.40 inches of mercury.

ND = Not Detected



Roger Scholl

Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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]

5/13/15

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

Date:
13-May-15

QC Summary Report

Work Order:
15050647

Method Blank

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

File ID: 15051210.D

Batch ID: MS08A0512B

Analysis Date: 05/12/2015 15:46

Sample ID: MBLK MS08A0512B

Units : mg/m³

Run ID: MSD_08_150512A

Prep Date: 05/12/2015 15:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.45		2		73	70	130			
Surr: Toluene-d8	2.48		2		124	70	130			
Surr: 4-Bromofluorobenzene	1.46		2		73	70	130			

Laboratory Control Spike

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

File ID: 15051207.D

Batch ID: MS08A0512B

Analysis Date: 05/12/2015 14:21

Sample ID: GLCS MS08A0512B

Units : mg/m³

Run ID: MSD_08_150512A

Prep Date: 05/12/2015 14:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	363	10	400		91	70	130			
Surr: 1,2-Dichloroethane-d4	7.34		10		73	70	130			
Surr: Toluene-d8	10.5		10		105	70	130			
Surr: 4-Bromofluorobenzene	12.1		10		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.



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-May-15

QC Summary Report

Work Order:
15050647

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15051210.D

Batch ID: MS08A0512A

Analysis Date: 05/12/2015 15:46

Sample ID: MBLK MS08A0512A

Units : mg/m³

Run ID: MSD_08_150512A

Prep Date: 05/12/2015 15:46

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.45		2		73	70	130			
Surr: Toluene-d8	2.48		2		124	70	130			
Surr: 4-Bromofluorobenzene	1.46		2		73	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15051206.D

Batch ID: MS08A0512A

Analysis Date: 05/12/2015 13:56

Sample ID: LCS MS08A0512A

Units : mg/m³

Run ID: MSD_08_150512A

Prep Date: 05/12/2015 13:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.89	0.1	10		79	63	137			
Benzene	10.7	0.1	10		107	70	130			
Toluene	12	0.1	10		120	80	120			
Ethylbenzene	10.8	0.1	10		108	80	120			
m,p-Xylene	11.1	0.1	10		111	65	139			
o-Xylene	10.7	0.1	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	7.65		10		77	70	130			
Surr: Toluene-d8	10.9		10		109	70	130			
Surr: 4-Bromofluorobenzene	11.3		10		113	70	130			

Comments:

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

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 : STR15050647
Report Due By : 5:00 PM On : 13-May-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 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

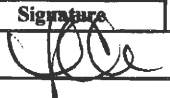
PO :
 Client's COC # : 12205 Job : Olympic Station

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
N/A °C	06-May-15	06-May-15

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_A	VOC_A									
STR15050647-01A	Oly A Sys INF	AR	05/05/15 07:07	1	0	5	GAS-N/C	BTEX/MTB E									Tedlar.

Comments: Security seals intact. Ice N/A. Chain split due to different TAT's. :

Logged in by:	Signature	Print Name	Company	Date/Time
		JESSICA ALVARADO.	Alpha Analytical, Inc.	5/4/15 1115

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: Stank's
 Attn: Debra
 Address: 3830 Commercial Pk DR
 City, State, Zip: Carrollton TX
 Phone Number: 530-267-4444 Fax: 530-267-4405



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 95627
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

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

12205

Page # 1 of 1

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

Samples Collected from which State? (circle one) AZ CA NV WA ID OR 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	Field Filtered?	# Containers** (See Key Below)	Analysis Requested			Remarks
								GRD	DEK	MTBE	
0707	5/15	AR	STRISOSD070701A	Oly A Sys Fmk	510	N	1	X	X	X	
0705	5/15	AR		Oly A EFF	24	N	1	X	X	X	

ADDITIONAL INSTRUCTIONS:
24 HR TAT on EFF

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: PHILL Date: 5-5-15 Time: 1345
Relinquished by: Stank Date: _____ Time: _____
Received by: Moussa T Date: 5-5-15 Time: 1345
Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: 5/6/15 Time: 1000

* Key: AQ - Aqueous WA - Waste OT - Other ** 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: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/06/15

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 : Oly A EFF				
Lab ID : STR15050646-01A	TPH-P (GRO)	ND	05/06/15 11:00	05/06/15
Date Sampled 05/05/15 07:05	Methyl tert-butyl ether (MTBE)	ND	05/06/15 11:00	05/06/15
	Benzene	ND	05/06/15 11:00	05/06/15
	Toluene	ND	05/06/15 11:00	05/06/15
	Ethylbenzene	ND	05/06/15 11:00	05/06/15
	m,p-Xylene	ND	05/06/15 11:00	05/06/15
	o-Xylene	ND	05/06/15 11:00	05/06/15

Gasoline Range Organics (GRO) C4-C13

Note: Concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.42 inches of mercury.

ND = Not Detected



Roger Scholl

Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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.



RSB

5/6/15

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

Date:
11-May-15

QC Summary Report

Work Order:
15050646

Method Blank

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

File ID: 15050606.D

Batch ID: MS08A0506B

Analysis Date: 05/06/2015 12:14

Sample ID: MBLK MS08A0506B

Units : mg/m³

Run ID: MSD_08_150506C

Prep Date: 05/06/2015 12:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.98		2		99	70	130			
Surr: Toluene-d8	2.22		2		111	70	130			
Surr: 4-Bromofluorobenzene	2		2		100	70	130			

Laboratory Control Spike

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

File ID: 15050603.D

Batch ID: MS08A0506B

Analysis Date: 05/06/2015 10:49

Sample ID: GLCS MS08A0506B

Units : mg/m³

Run ID: MSD_08_150506C

Prep Date: 05/06/2015 10:49

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	443	10	400		111	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9		10		90	70	130			
Surr: 4-Bromofluorobenzene	12.5		10		125	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.



Alpha Analytical, Inc.

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

Date:
11-May-15

QC Summary Report

Work Order:
15050646

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15050606.D

Batch ID: MS08A0506A

Analysis Date: 05/06/2015 12:14

Sample ID: MBLK MS08A0506A

Units: mg/m³

Run ID: MSD_08_150506C

Prep Date: 05/06/2015 12:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.98		2		99	70	130			
Surr: Toluene-d8	2.22		2		111	70	130			
Surr: 4-Bromofluorobenzene	2		2		100	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15050602.D

Batch ID: MS08A0506A

Analysis Date: 05/06/2015 10:21

Sample ID: LCS MS08A0506A

Units: mg/m³

Run ID: MSD_08_150506C

Prep Date: 05/06/2015 10:21

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.24	0.1	10		92	63	137			
Benzene	10.2	0.1	10		102	70	130			
Toluene	9.68	0.1	10		97	80	120			
Ethylbenzene	9.43	0.1	10		94	80	120			
m,p-Xylene	8.88	0.1	10		89	65	139			
o-Xylene	8.56	0.1	10		86	70	130			
Surr: 1,2-Dichloroethane-d4	10.9		10		109	70	130			
Surr: Toluene-d8	9.67		10		97	70	130			
Surr: 4-Bromofluorobenzene	12.2		10		122	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.

Billing Information :

CHAIN-OF-CUSTODY RECORD

RUSH!

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

WorkOrder : STR15050646
Report Due By : 5:00 PM On : 06-May-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 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 # : 12205 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
N/A °C	06-May-15	06-May-15

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_A	VOC_A								
STR15050646-01A	Oly A EFF	AR 05/05/15 07:05	1 0 0	GAS-N/C	BTEX/MTB E								Tedlar.

Comments: ASAP TAT. Security seals intact. Ice N/A. Chain split due to different TAT's.

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	5/10/15 1045

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: Stuck's
 Attn: Debbie
 Address: 3531 Cummins Pt Dr
 City, State, Zip: Channahon, IL
 Phone Number: 531-261-1005 Fax: 531-261-1005



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431

Phone: 775-355-1044
 Fax: 775-355-0406

12205

Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95927
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 916-368-9089
 Phone: 702-281-4848
 Phone: 714-366-2801

Page # 1 of 1

Company: <u>Stuck's</u>		Job #: _____		Name: <u>Bill</u>		EDD Required? Yes / No		EDF Required? Yes / No	
Address: _____		Job Name: <u>Olympic Station</u>		Email Address: _____		Global ID: _____			
City, State, Zip: _____		P.O. #: _____		Phone #: _____		Date Validation Level: III or IV			
Report Attention/Project Manager: _____		Cell #: _____							

Samples Collected from which state? (circle one) AZ <u>CA</u> NV WA ID OR GOD Site Other										Analysis Requested				Remarks
Time Sampled (hr:min)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Lab Filtered?	Containers * (See Key Below)	GRD	DHx	MYBE				
5:07	5/15	AR		Dly A Sys JAR	510	N	1	X	X	X				
0:05	5/15	AR	TR15050616-01	Dly A EFF	24	N	1	X	X	X				

ADDITIONAL INSTRUCTIONS:
24 HR TAT on EFF

(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 445.0630 (c) (2).

Sampled By: <u>Debbie</u> Relinquished by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>5/15</u> Date: _____	Time: <u>1345</u> Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u> Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>5-5-15</u> Date: <u>5/16/15</u>	Time: <u>1345</u> Time: <u>1000</u>
---	----------------------------------	----------------------------------	--	---	--

* Key: AQ - Aqueous WA - Waste OT - Other ** 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: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/06/15

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 : Oly W INF				
Lab ID : STR15050650-01A				
Date Sampled 05/05/15 07:32				
TPH-P (GRO)	96	50 µg/L	05/09/15	05/09/15
Methyl tert-butyl ether (MTBE)	19	0.50 µg/L	05/09/15	05/09/15
Benzene	5.0	0.50 µg/L	05/09/15	05/09/15
Toluene	ND	0.50 µg/L	05/09/15	05/09/15
Ethylbenzene	2.2	0.50 µg/L	05/09/15	05/09/15
m,p-Xylene	1.4	0.50 µg/L	05/09/15	05/09/15
o-Xylene	0.76	0.50 µg/L	05/09/15	05/09/15
Client ID : Oly W GAC1				
Lab ID : STR15050650-02A				
Date Sampled 05/05/15 07:28				
TPH-P (GRO)	ND	50 µg/L	05/09/15	05/09/15
Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	05/09/15	05/09/15
Benzene	ND	0.50 µg/L	05/09/15	05/09/15
Toluene	ND	0.50 µg/L	05/09/15	05/09/15
Ethylbenzene	ND	0.50 µg/L	05/09/15	05/09/15
m,p-Xylene	ND	0.50 µg/L	05/09/15	05/09/15
o-Xylene	ND	0.50 µg/L	05/09/15	05/09/15
Client ID : Oly W GAC2				
Lab ID : STR15050650-03A				
Date Sampled 05/05/15 07:25				
TPH-P (GRO)	ND	50 µg/L	05/09/15	05/09/15
Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	05/09/15	05/09/15
Benzene	ND	0.50 µg/L	05/09/15	05/09/15
Toluene	ND	0.50 µg/L	05/09/15	05/09/15
Ethylbenzene	ND	0.50 µg/L	05/09/15	05/09/15
m,p-Xylene	ND	0.50 µg/L	05/09/15	05/09/15
o-Xylene	ND	0.50 µg/L	05/09/15	05/09/15

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.



Roger Scholl

Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager
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.



RS

5/13/15

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: STR15050650

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15050650-01A	Oly W INF	Aqueous	2
15050650-02A	Oly W GAC1	Aqueous	2
15050650-03A	Oly W GAC2	Aqueous	2

5/13/15

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:
11-May-15

QC Summary Report

Work Order:
15050650

Method Blank

File ID: 15050907.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0509B

Analysis Date: 05/09/2015 13:09

Sample ID: MBLK MS09W0509B

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 13:09

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.57		10		86	70	130			
Surr: Toluene-d8	11.4		10		114	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike

File ID: 15050906.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0509B

Analysis Date: 05/09/2015 12:36

Sample ID: GLCS MS09W0509B

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 12:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	370	50	400		92	70	130			
Surr: 1,2-Dichloroethane-d4	9.39		10		94	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	9.07		10		91	70	130			

Sample Matrix Spike

File ID: 15050929.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0509B

Analysis Date: 05/09/2015 22:03

Sample ID: 15050649-02AGS

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 22:03

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1650	250	2000		83	54	143			
Surr: 1,2-Dichloroethane-d4	48.5		50		97	70	130			
Surr: Toluene-d8	53.8		50		108	70	130			
Surr: 4-Bromofluorobenzene	48.5		50		97	70	130			

Sample Matrix Spike Duplicate

File ID: 15050930.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS09W0509B

Analysis Date: 05/09/2015 22:28

Sample ID: 15050649-02AGSD

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 22:28

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1590	250	2000		79	54	143	1651	4.0(23)	
Surr: 1,2-Dichloroethane-d4	47.7		50		95	70	130			
Surr: Toluene-d8	54.6		50		109	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	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:
11-May-15

QC Summary Report

Work Order:
15050650

Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15050907.D

Batch ID: MS09W0509A

Analysis Date: 05/09/2015 13:09

Sample ID: MBLK MS09W0509A

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 13:09

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	8.57		10		86	70	130			
Surr: Toluene-d8	11.4		10		114	70	130			
Surr: 4-Bromofluorobenzene	10		10		100	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15050905.D

Batch ID: MS09W0509A

Analysis Date: 05/09/2015 12:11

Sample ID: LCS MS09W0509A

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 12:11

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.51	0.5	10		95	63	137			
Benzene	9.6	0.5	10		96	70	130			
Toluene	9.98	0.5	10		99.8	80	120			
Ethylbenzene	11.8	0.5	10		118	80	120			
m,p-Xylene	10.8	0.5	10		108	65	139			
o-Xylene	10.7	0.5	10		107	70	130			
Surr: 1,2-Dichloroethane-d4	9.55		10		96	70	130			
Surr: Toluene-d8	11		10		110	70	130			
Surr: 4-Bromofluorobenzene	8.94		10		89	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15050927.D

Batch ID: MS09W0509A

Analysis Date: 05/09/2015 21:14

Sample ID: 15050649-02AMS

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 21:14

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	43.3	1.3	50	0	87	56	140			
Benzene	47.8	1.3	50	0	96	67	134			
Toluene	50.3	1.3	50	0	101	38	130			
Ethylbenzene	56	1.3	50	0	112	70	130			
m,p-Xylene	52.7	1.3	50	0	105	65	139			
o-Xylene	51.1	1.3	50	0	102	69	130			
Surr: 1,2-Dichloroethane-d4	50		50		99.9	70	130			
Surr: Toluene-d8	53.6		50		107	70	130			
Surr: 4-Bromofluorobenzene	46.6		50		93	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15050928.D

Batch ID: MS09W0509A

Analysis Date: 05/09/2015 21:38

Sample ID: 15050649-02AMSD

Units: µg/L

Run ID: MSD_09_150509A

Prep Date: 05/09/2015 21:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	44.7	1.3	50	0	89	56	140	43.26	3.3(40)	
Benzene	47.8	1.3	50	0	96	67	134	47.78	0.1(21)	
Toluene	48.7	1.3	50	0	97	38	130	50.28	3.1(20)	
Ethylbenzene	56.1	1.3	50	0	112	70	130	55.96	0.3(20)	
m,p-Xylene	50.9	1.3	50	0	102	65	139	52.71	3.5(20)	
o-Xylene	50.2	1.3	50	0	100	69	130	51.13	1.8(20)	
Surr: 1,2-Dichloroethane-d4	49.6		50		99	70	130			
Surr: Toluene-d8	53.6		50		107	70	130			
Surr: 4-Bromofluorobenzene	46.8		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:
11-May-15

QC Summary Report

Work Order:
15050650

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 : STR15050650
Report Due By : 5:00 PM On : 13-May-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 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 # : 12204 Job : Olympic Station

<u>Cooler Temp</u>	<u>Samples Received</u>	<u>Date Printed</u>
4 °C	06-May-15	06-May-15

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								
STR15050650-01A	Oly W INF	AQ	05/05/15 07:32	3	0	5	GAS-C	BTEX/M_C								
STR15050650-02A	Oly W GAC1	AQ	05/05/15 07:28	3	0	5	GAS-C	BTEX/M_C								
STR15050650-03A	Oly W GAC2	AQ	05/05/15 07:25	3	0	5	GAS-C	BTEX/M_C								

Comments: Security seals intact. Frozen ice. Chain split due to different TAT's.

Logged in by:	Signature	Print Name	Company	Date/Time
		JESSICA ALVARADO	Alpha Analytical, Inc.	5/6/15 11:50

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: Sparks 3
 Attn: Debbie
 Address: 5330 Cameron Pk Dr
 City, State, Zip: Cameron, NC
 Phone Number: 252 674 6004 Fax: 252 674 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 NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

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

12204

Page # 1 of 1

Company: Sparks 3
Address: _____
City, State, Zip: _____

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

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

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

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

Time Sampled (HHMM)	Date Sampled (MMDD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested			Remarks
								JPH	BLK	MTBL	
0732	5/3/15	AQ	STRISLEWOOD	01y w INF	510	N	3	X	X	X	
0735	5/3/15	AQ		01y w GAC 1	510	N	3	X	X	X	
0735	5/5/15	AQ		01y w GAC 2	510	N	3	X	X	X	
0732	5/9/15	AQ		01y w EFF	24	N	3	X	X	X	

ADDITIONAL INSTRUCTIONS:
24 HR TAT on EFF

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: AHL
 Relinquished by: (Signature/Affiliation) Michelle Station Date: 5/5/15 Time: 1345
 Received by: (Signature/Affiliation) Moussa T Date: 5/5/15 Time: 1345
 Relinquished by: (Signature/Affiliation) _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation) [Signature] Date: 5/16/15 Time: 1000

* Key: AQ - Aqueous WA - Waste OT - Other ** 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: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 05/06/15

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 : Oly W EFF				
Lab ID : STR15050645-01A	TPH-P (GRO)	50 µg/L	05/06/15	05/06/15
Date Sampled 05/05/15 07:22	Methyl tert-butyl ether (MTBE)	0.50 µg/L	05/06/15	05/06/15
	Benzene	0.50 µg/L	05/06/15	05/06/15
	Toluene	0.50 µg/L	05/06/15	05/06/15
	Ethylbenzene	0.50 µg/L	05/06/15	05/06/15
	m,p-Xylene	0.50 µg/L	05/06/15	05/06/15
	o-Xylene	0.50 µg/L	05/06/15	05/06/15

Gasoline Range Organics (GRO) C4-C13

ND = Not Detected

Reported in micrograms per Liter, per client request.



Roger Scholl

Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager
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.



RS

5/6/15

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: STR15050645

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15050645-01A	Oly W EFF	Aqueous	2

5/6/15

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:
11-May-15

QC Summary Report

Work Order:
15050645

Method Blank
File ID: 15050605.D

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

Batch ID: MS15W0506B

Analysis Date: 05/06/2015 11:43

Sample ID: MBLK MS15W0506B

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/06/2015 11:43

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.42		10		94	70	130			
Surr: Toluene-d8	9.51		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

Laboratory Control Spike
File ID: 15050603.D

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

Batch ID: MS15W0506B

Analysis Date: 05/06/2015 10:44

Sample ID: GLCS MS15W0506B

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/06/2015 10:44

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	443	50	400		111	70	130			
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.19		10		92	70	130			
Surr: 4-Bromofluorobenzene	9.89		10		99	70	130			

Sample Matrix Spike
File ID: 15050720.D

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

Batch ID: MS15W0506B

Analysis Date: 05/07/2015 18:15

Sample ID: 15050642-01AGS

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/07/2015 18:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2240	250	2000		0	112	54	143		
Surr: 1,2-Dichloroethane-d4	41.7		50		83	70	130			
Surr: Toluene-d8	46.5		50		93	70	130			
Surr: 4-Bromofluorobenzene	47.4		50		95	70	130			

Sample Matrix Spike Duplicate
File ID: 15050721.D

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

Batch ID: MS15W0506B

Analysis Date: 05/07/2015 18:39

Sample ID: 15050642-01AGSD

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/07/2015 18:39

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2120	250	2000		0	106	54	143	2237	5.5(23)
Surr: 1,2-Dichloroethane-d4	42.5		50		85	70	130			
Surr: Toluene-d8	47		50		94	70	130			
Surr: 4-Bromofluorobenzene	46.2		50		92	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:
11-May-15

QC Summary Report

Work Order:
15050645

Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15050605.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 11:43

Sample ID: MBLK MS15W0506A

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/06/2015 11:43

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	9.42		10		94	70	130			
Surr: Toluene-d8	9.51		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15050602.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 10:18

Sample ID: LCS MS15W0506A

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/06/2015 10:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.7	0.5	10		107	63	137			
Benzene	10.3	0.5	10		103	70	130			
Toluene	8.82	0.5	10		88	80	120			
Ethylbenzene	8.91	0.5	10		89	80	120			
m,p-Xylene	9.12	0.5	10		91	65	139			
o-Xylene	9.43	0.5	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10		96	70	130			
Surr: Toluene-d8	9.32		10		93	70	130			
Surr: 4-Bromofluorobenzene	9.53		10		95	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15050628.D

Batch ID: MS15W0506A

Analysis Date: 05/06/2015 21:08

Sample ID: 15050642-01AMS

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/06/2015 21:08

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			
Benzene	54.7	1.3	50	0	109	67	134			
Toluene	45.1	1.3	50	0	90	38	130			
Ethylbenzene	44	1.3	50	0	88	70	130			
m,p-Xylene	46.6	1.3	50	0	93	65	139			
o-Xylene	48.4	1.3	50	0	97	69	130			
Surr: 1,2-Dichloroethane-d4	46.1		50		92	70	130			
Surr: Toluene-d8	45.1		50		90	70	130			
Surr: 4-Bromofluorobenzene	45.5		50		91	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15050719.D

Batch ID: MS15W0506A

Analysis Date: 05/07/2015 17:50

Sample ID: 15050642-01AMSD

Units: µg/L

Run ID: MSD_15_150506A

Prep Date: 05/07/2015 17:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	68.8	1.3	50	0	138	56	140	63.7	7.6(40)	
Benzene	65.1	1.3	50	0	130	67	134	54.65	17.5(21)	
Toluene	51.2	1.3	50	0	102	38	130	45.07	12.7(20)	
Ethylbenzene	47.9	1.3	50	0	96	70	130	44.03	8.4(20)	
m,p-Xylene	50.7	1.3	50	0	101	65	139	46.58	8.4(20)	
o-Xylene	53.6	1.3	50	0	107	69	130	48.41	10.1(20)	
Surr: 1,2-Dichloroethane-d4	40.7		50		81	70	130			
Surr: Toluene-d8	45.6		50		91	70	130			
Surr: 4-Bromofluorobenzene	46.8		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:
11-May-15

QC Summary Report

Work Order:
15050645

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

RUSH!

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

WorkOrder : STR15050645
Report Due By : 5:00 PM On : 06-May-15

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

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

EDD Required : Yes

Sampled by : C. Hill

PO :
 Client's COC # : 12204 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
4 °C	06-May-15	06-May-15

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							
STR15050645-01A	Oly W EFF	AQ	05/05/15 07:22	3	0	0	GAS-C	BTEX/M_C						

Comments: ASAP TAT. Security seals intact. Frozen ice. Chain split due to different TAT's. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	5/6/15 1025

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

Company: Stratus
 Attn: Steve
 Address: 5331 Canyon Pl. DR
 City, State, Zip: Las Vegas, NV
 Phone Number: 702-616-1114 Fax: 702-616-6115



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 95627
 Southern NV: 8208 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite G, Carson, CA 90746

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9099
 Phone: 702-251-4945
 Phone: 714-385-2901

12204
 Page # 1

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

Samples Collected from which State? (circle one) AZ CO NV WA ID OR DOD Site Other: _____

Time Sampled (H:MM)	Date Sampled (MM/DD)	Matrix (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	Compliance? (See Key Below)	TPH SV	BAL SV	MTBL SV	Analysis Requested	Remarks
0722	5/15	HR		01x W INF	310	N	3	X	X	X		
0725	5/15	HR		01x W GAC 1	310	N	3	X	X	X		
0729	5/15	HR		01x W GAC 2	310	N	3	X	X	X		
0732	5/15	HR		01x W EFF	2400	N	3	X	X	X		

ADDITIONAL INSTRUCTIONS:
24 HR TAT ON EFF

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 446.0936 (c) (2).

Sampled by: <u>Steve</u>	Date: <u>5/15</u>	Time: <u>1345</u>	Received by: (Signature/Affiliation): <u>MICHELLE T</u>	Date: <u>5/15</u>	Time: <u>1345</u>
Relinquished by: (Signature/Affiliation): <u>Steve</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>5/16/15</u>	Time: <u>10305</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

NOTE: Samples are discarded 90 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 CDC. 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: Scott Bittinger
Phone: (530) 676-2062
Fax: (530) 676-6005
Date Received : 06/03/15

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 : Oly W INF				
Lab ID : STR15060351-01A	TPH-P (GRO)	ND	50 µg/L	06/04/15
Date Sampled 06/02/15 05:30	Methyl tert-butyl ether (MTBE)	7.7	0.50 µg/L	06/04/15
	Benzene	ND	0.50 µg/L	06/04/15
	Toluene	ND	0.50 µg/L	06/04/15
	Ethylbenzene	ND	0.50 µg/L	06/04/15
	m,p-Xylene	ND	0.50 µg/L	06/04/15
	o-Xylene	ND	0.50 µg/L	06/04/15
Client ID : Oly W GAC1				
Lab ID : STR15060351-02A	TPH-P (GRO)	ND	50 µg/L	06/04/15
Date Sampled 06/02/15 05:21	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	06/04/15
	Benzene	ND	0.50 µg/L	06/04/15
	Toluene	ND	0.50 µg/L	06/04/15
	Ethylbenzene	ND	0.50 µg/L	06/04/15
	m,p-Xylene	ND	0.50 µg/L	06/04/15
	o-Xylene	ND	0.50 µg/L	06/04/15
Client ID : Oly W GAC2				
Lab ID : STR15060351-03A	TPH-P (GRO)	ND	50 µg/L	06/04/15
Date Sampled 06/02/15 05:17	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	06/04/15
	Benzene	ND	0.50 µg/L	06/04/15
	Toluene	ND	0.50 µg/L	06/04/15
	Ethylbenzene	ND	0.50 µg/L	06/04/15
	m,p-Xylene	ND	0.50 µg/L	06/04/15
	o-Xylene	ND	0.50 µg/L	06/04/15
Client ID : Oly A SYS INF				
Lab ID : STR15060351-04A	TPH-P (GRO)	ND	20 mg/m ³	06/03/15 16:10
Date Sampled 06/02/15 05:35	Methyl tert-butyl ether (MTBE)	0.24	0.20 mg/m ³	06/03/15 16:10
	Benzene	0.20	0.20 mg/m ³	06/03/15 16:10
	Toluene	ND	0.20 mg/m ³	06/03/15 16:10
	Ethylbenzene	ND	0.20 mg/m ³	06/03/15 16:10
	m,p-Xylene	ND	0.20 mg/m ³	06/03/15 16:10
	o-Xylene	ND	0.20 mg/m ³	06/03/15 16:10



Alpha Analytical, Inc.

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Gasoline Range Organics (GRO) C4-C13

Note: For sample -04A concentrations of air in a Tedlar Bag are at 30 degrees Celsius and 29.9 inches of mercury.

ND = Not Detected



Roger Scholl

Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager

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.



RS

6/10/15

Report Date



Alpha Analytical, Inc.

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VOC Sample Preservation Report

Work Order: STR15060351

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15060351-01A	Oly WINF	Aqueous	2
15060351-02A	Oly W GAC1	Aqueous	2
15060351-03A	Oly W GAC2	Aqueous	2

6/10/15

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:
09-Jun-15

QC Summary Report

Work Order:
15060351

Method Blank

File ID: 15060821.D

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

Batch ID: MS09A0608B

Analysis Date: 06/08/2015 19:26

Sample ID: MBLK MS09A0608B

Units : mg/m³

Run ID: MSD_09_150608A

Prep Date: 06/08/2015 19:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.7		2		85	70	130			
Surr: Toluene-d8	2.02		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.85		2		93	70	130			

Laboratory Control Spike

File ID: 15060803.D

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

Batch ID: MS09A0608B

Analysis Date: 06/08/2015 12:18

Sample ID: GLCS MS09A0608B

Units : mg/m³

Run ID: MSD_09_150608A

Prep Date: 06/08/2015 12:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	363	10	400		91	70	130			
Surr: 1,2-Dichloroethane-d4	8.92		10		89	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.26		10		93	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.



Alpha Analytical, Inc.

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Date:
09-Jun-15

QC Summary Report

Work Order:
15060351

Method Blank		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060410.D			Batch ID: MS09W0604B				Analysis Date: 06/04/2015 14:19			
Sample ID:	MBLK MS09W0604B	Units: µg/L	Run ID: MSD_09_150604A		Prep Date: 06/04/2015 14:19					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	7.68		10		77	70	130			
Surr: Toluene-d8	9.65		10		97	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060409.D			Batch ID: MS09W0604B				Analysis Date: 06/04/2015 13:55			
Sample ID:	GLCS MS09W0604B	Units: µg/L	Run ID: MSD_09_150604A		Prep Date: 06/04/2015 13:55					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	420	50	400		105	70	130			
Surr: 1,2-Dichloroethane-d4	7.71		10		77	70	130			
Surr: Toluene-d8	9.28		10		93	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060433.D			Batch ID: MS09W0604B				Analysis Date: 06/04/2015 23:29			
Sample ID:	15060351-01AGS	Units: µg/L	Run ID: MSD_09_150604A		Prep Date: 06/04/2015 23:29					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1820	250	2000	0	91	54	143			
Surr: 1,2-Dichloroethane-d4	36.8		50		74	70	130			
Surr: Toluene-d8	47.1		50		94	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.5	70	130			

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060434.D			Batch ID: MS09W0604B				Analysis Date: 06/04/2015 23:52			
Sample ID:	15060351-01AGSD	Units: µg/L	Run ID: MSD_09_150604A		Prep Date: 06/04/2015 23:52					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1830	250	2000	0	91	54	143	1819	0.5(23)	
Surr: 1,2-Dichloroethane-d4	37.4		50		75	70	130			
Surr: Toluene-d8	46.9		50		94	70	130			
Surr: 4-Bromofluorobenzene	49.5		50		99	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.



Alpha Analytical, Inc.

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Date:
09-Jun-15

QC Summary Report

Work Order:
15060351

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15060821.D

Batch ID: MS09A0608A

Analysis Date: 06/08/2015 19:26

Sample ID: MBLK MS09A0608A

Units: mg/m³

Run ID: MSD_09_150608A

Prep Date: 06/08/2015 19:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.7		2		85	70	130			
Surr: Toluene-d8	2.02		2		101	70	130			
Surr: 4-Bromofluorobenzene	1.85		2		93	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15060802.D

Batch ID: MS09A0608A

Analysis Date: 06/08/2015 11:54

Sample ID: LCS MS09A0608A

Units: mg/m³

Run ID: MSD_09_150608A

Prep Date: 06/08/2015 11:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	7.73	0.1	10		77	63	137			
Benzene	9.98	0.1	10		99.8	70	130			
Toluene	10.2	0.1	10		102	70	130			
Ethylbenzene	10.4	0.1	10		104	70	130			
m,p-Xylene	9.34	0.1	10		93	65	139			
o-Xylene	9.19	0.1	10		92	70	130			
Surr: 1,2-Dichloroethane-d4	8.87		10		89	70	130			
Surr: Toluene-d8	10		10		100	70	130			
Surr: 4-Bromofluorobenzene	8.97		10		90	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.



Alpha Analytical, Inc.

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

Date:
09-Jun-15

QC Summary Report

Work Order:
15060351

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.

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 : STR15060351
Report Due By : 5:00 PM On : 10-Jun-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 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 # : 12185 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jun-15	03-Jun-15

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_A	TPHP_W	VOC_A	VOC_W			
STR15060351-01A	Oly W INF	AQ 06/02/15 05:30	3 0 5		GAS-C		BTEX/M_C			
STR15060351-02A	Oly W GAC1	AQ 06/02/15 05:21	3 0 5		GAS-C		BTEX/M_C			
STR15060351-03A	Oly W GAC2	AQ 06/02/15 05:17	3 0 5		GAS-C		BTEX/M_C			
STR15060351-04A	Oly A SYS INF	AR 06/02/15 05:35	1 0 5	GAS-N/C		BTEX/MTB E				Tedlar.

Comments: Security seals intact. Frozen ice. Chains combined by job name and split by TATs for reporting purposes. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	6/3/15 1220

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: State's
 Attn: W. Kelly
 Address: 3330 Cameron Dr DR
Cameron PA
 City, State, Zip: _____
 Phone Number: _____ Fax: _____



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 NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-356-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 702-281-4848
 Phone: 714-386-2901

12185
 Page # 1 of 1

Consultant/Client Info: Company: State's
Job and Purchase Order Info: Job #: _____ Job Name: Olympic Station P.O. #: _____
Report Attention/Project Manager: Name: SLI II Email Address: _____ Phone #: _____ Cell #: _____
QC Deliverable Info: EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Global ID: _____ Date Validation Level: III or IV

Samples Collected from which State? (circle one) AZ CA NV WA ID OR 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	Field Filtered?	# Containers** (See Key Below)	Analysis Requested			Remarks
								TPH	B&X	MTBL	
0521	6/15	NR	STRONG	OLY W INF	STD	N	3	X	X	X	
0521				OLY W GAC-1	STD	N	3	X	X	X	
0517				OLY W GAC-2	STD	N	3	X	X	X	
0519	6/3	NR		OLY W LTF	24	N	3	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>W. Kelly</u>	Date: <u>6/2/15</u>	Time: <u>11:50</u>	Received by: (Signature/Affiliation): <u>M. J. S. T.</u>	Date: <u>6-2-15</u>	Time: <u>1158</u>
Relinquished by: (Signature/Affiliation): <u>W. Kelly</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>CP</u>	Date: <u>6/3/15</u>	Time: <u>940</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other ** 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.

Company: Stratus
 Attn: Dobbie
 Address: 3330 Cameron Pk
Carson, NV
 City, State, Zip: _____
 Phone Number: _____ Fax: _____



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Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9099
 Phone: 702-281-4848
 Phone: 714-386-2901

12184

Page # 1 of 1

Company: Stratus Job # _____ Report Attention/Project Manager: Scott QC Deliverable Info:
 Address: _____ Job Name: Olympic Station Name: _____ EDD Required? Yes / No EDF Required? Yes / No
 City, State, Zip: _____ P.O. #: _____ Email Address: _____ Global ID: _____
 Date Validation Level: III or IV

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

Time Sampled (H:MM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested			Remarks
								GRD	BYEX	MTBE	
0535	6/25	AK	STRIPDOWN	OILY A SS IMC STD	54	N	1	X	X	X	
0540	6/29	AK		OILY A EFF	24	N	1	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>[Signature]</u>	Date: <u>6/25</u>	Time: <u>1150</u>	Received by: (Signature/Affiliation): <u>Maryssa</u>	Date: <u>6-25</u>	Time: <u>1150</u>
Relinquished by: (Signature/Affiliation): <u>[Signature]</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>6/31/15</u>	Time: <u>940</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other ** 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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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 : 06/03/15

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 : Oly W EFF				
Lab ID : STR15060343-01A	TPH-P (GRO)	ND	50 µg/L	06/03/15
Date Sampled 06/02/15 05:15	Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	06/03/15
	Benzene	ND	0.50 µg/L	06/03/15
	Toluene	ND	0.50 µg/L	06/03/15
	Ethylbenzene	ND	0.50 µg/L	06/03/15
	m,p-Xylene	ND	0.50 µg/L	06/03/15
	o-Xylene	ND	0.50 µg/L	06/03/15
Client ID : Oly A EFF				
Lab ID : STR15060343-02A	TPH-P (GRO)	ND	20 mg/m ³	06/03/15 11:01
Date Sampled 06/02/15 05:40	Methyl tert-butyl ether (MTBE)	ND	0.20 mg/m ³	06/03/15 11:01
	Benzene	ND	0.20 mg/m ³	06/03/15 11:01
	Toluene	ND	0.20 mg/m ³	06/03/15 11:01
	Ethylbenzene	ND	0.20 mg/m ³	06/03/15 11:01
	m,p-Xylene	ND	0.20 mg/m ³	06/03/15 11:01
	o-Xylene	ND	0.20 mg/m ³	06/03/15 11:01

Gasoline Range Organics (GRO) C4-C13

Note: For sample -02A concentrations of air in a Tedlar Bag are at 29 degrees Celsius and 25.52 inches of mercury.

ND = Not Detected

Reported in micrograms per Liter, per client request.



Roger Scholl

Randy Gardner

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager
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.



8/15

6/3/15

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: STR15060343

Job: Olympic Station

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15060343-01A	Oly W EFF	Aqueous	2

6/3/15
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:
08-Jun-15

QC Summary Report

Work Order:
15060343

Method Blank

File ID: 15060305.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8280B

Batch ID: MS08A0603B

Analysis Date: 06/03/2015 11:58

Sample ID: MBLK MS08A0603B

Units : mg/m³

Run ID: MSD_08_150603A

Prep Date: 06/03/2015 11:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	1.56		2		78	70	130			
Surr: Toluene-d8	2.31		2		116	70	130			
Surr: 4-Bromofluorobenzene	1.67		2		84	70	130			

Laboratory Control Spike

File ID: 15060303.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8280B

Batch ID: MS08A0603B

Analysis Date: 06/03/2015 11:05

Sample ID: GLCS MS08A0603B

Units : mg/m³

Run ID: MSD_08_150603A

Prep Date: 06/03/2015 11:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	417	10	400		104	70	130			
Surr: 1,2-Dichloroethane-d4	8.03		10		80	70	130			
Surr: Toluene-d8	9.85		10		99	70	130			
Surr: 4-Bromofluorobenzene	12.5		10		125	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.



Alpha Analytical, Inc.

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Date:
08-Jun-15

QC Summary Report

Work Order:
15060343

Method Blank		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060304.D		MBLK	Batch ID: MS09W0603B				Analysis Date: 06/03/2015 13:33			
Sample ID:	MBLK MS09W0603B	Units : µg/L	Run ID: MSD_09_150603A			Prep Date: 06/03/2015 13:33				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	8.05		10		81	70	130			
Surr: Toluene-d8	9.57		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.7		10		97	70	130			

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060303.D		LCS	Batch ID: MS09W0603B				Analysis Date: 06/03/2015 13:09			
Sample ID:	GLCS MS09W0603B	Units : µg/L	Run ID: MSD_09_150603A			Prep Date: 06/03/2015 13:09				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	422	50	400		105	70	130			
Surr: 1,2-Dichloroethane-d4	8.3		10		83	70	130			
Surr: Toluene-d8	9.07		10		91	70	130			
Surr: 4-Bromofluorobenzene	10.2		10		102	70	130			

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060329.D		MS	Batch ID: MS09W0603B				Analysis Date: 06/03/2015 23:40			
Sample ID:	15060341-01AGS	Units : µg/L	Run ID: MSD_09_150603A			Prep Date: 06/03/2015 23:40				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1930	250	2000	0	97	54	143			
Surr: 1,2-Dichloroethane-d4	40.9		50		82	70	130			
Surr: Toluene-d8	45.9		50		92	70	130			
Surr: 4-Bromofluorobenzene	51.6		50		103	70	130			

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 15060330.D		MSD	Batch ID: MS09W0603B				Analysis Date: 06/04/2015 00:04			
Sample ID:	15060341-01AGSD	Units : µg/L	Run ID: MSD_09_150603A			Prep Date: 06/04/2015 00:04				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2100	250	2000	0	105	54	143	1935	8.2(23)	
Surr: 1,2-Dichloroethane-d4	38.3		50		77	70	130			
Surr: Toluene-d8	46.4		50		93	70	130			
Surr: 4-Bromofluorobenzene	50.6		50		101	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:
08-Jun-15

QC Summary Report

Work Order:
15060343

Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 15060305.D

Batch ID: MS08A0603A

Analysis Date: 06/03/2015 11:58

Sample ID: MBLK MS08A0603A

Units: mg/m³

Run ID: MSD_08_150603A

Prep Date: 06/03/2015 11:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.1								
Benzene	ND	0.1								
Toluene	ND	0.1								
Ethylbenzene	ND	0.1								
m,p-Xylene	ND	0.1								
o-Xylene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	1.56		2		78	70	130			
Surr: Toluene-d8	2.31		2		116	70	130			
Surr: 4-Bromofluorobenzene	1.67		2		84	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 15060302.D

Batch ID: MS08A0603A

Analysis Date: 06/03/2015 10:05

Sample ID: LCS MS08W0603A

Units: mg/m³

Run ID: MSD_08_150603A

Prep Date: 06/03/2015 10:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	8.99	0.1	10		90	63	137			
Benzene	9.95	0.1	10		100	70	130			
Toluene	11	0.1	10		110	70	130			
Ethylbenzene	9.66	0.1	10		97	70	130			
m,p-Xylene	9.94	0.1	10		99	65	139			
o-Xylene	10.1	0.1	10		101	70	130			
Surr: 1,2-Dichloroethane-d4	8.4		10		84	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	12.9		10		129	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.



Alpha Analytical, Inc.

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Date:
08-Jun-15

QC Summary Report

Work Order:
15060343

Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 15060304.D

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 13:33

Sample ID: MBLK MS09W0603A

Units: µg/L

Run ID: MSD_09_150603A

Prep Date: 06/03/2015 13:33

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	8.05		10		81	70	130			
Surr: Toluene-d8	9.57		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.7		10		97	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 15060302.D

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 12:45

Sample ID: LCS MS09W0603A

Units: µg/L

Run ID: MSD_09_150603A

Prep Date: 06/03/2015 12:45

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.84	0.5	10		98	63	137			
Benzene	11.4	0.5	10		114	70	130			
Toluene	11.5	0.5	10		115	70	130			
Ethylbenzene	11.5	0.5	10		115	70	130			
m,p-Xylene	9.65	0.5	10		97	65	139			
o-Xylene	9.51	0.5	10		95	70	130			
Surr: 1,2-Dichloroethane-d4	8.37		10		84	70	130			
Surr: Toluene-d8	9.06		10		91	70	130			
Surr: 4-Bromofluorobenzene	9.41		10		94	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 15060327.D

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 22:52

Sample ID: 15052601-09AMS

Units: µg/L

Run ID: MSD_09_150603A

Prep Date: 06/03/2015 22:52

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	42.1	1.3	50	0	84	56	140			
Benzene	52.4	1.3	50	0	105	67	134			
Toluene	53.9	1.3	50	0	108	38	130			
Ethylbenzene	51.9	1.3	50	0	104	70	130			
m,p-Xylene	43	1.3	50	0	86	65	139			
o-Xylene	43.4	1.3	50	0	87	69	130			
Surr: 1,2-Dichloroethane-d4	42.7		50		85	70	130			
Surr: Toluene-d8	44.1		50		88	70	130			
Surr: 4-Bromofluorobenzene	48.4		50		97	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 15060328.D

Batch ID: MS09W0603A

Analysis Date: 06/03/2015 23:15

Sample ID: 15052601-09AMSD

Units: µg/L

Run ID: MSD_09_150603A

Prep Date: 06/03/2015 23:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	45.9	1.3	50	0	92	56	140	42.12	8.7(40)	
Benzene	57.1	1.3	50	0	114	67	134	52.35	8.7(21)	
Toluene	58.2	1.3	50	0	116	38	130	53.89	7.6(20)	
Ethylbenzene	56.6	1.3	50	0	113	70	130	51.89	8.7(20)	
m,p-Xylene	46.3	1.3	50	0	93	65	139	43	7.3(20)	
o-Xylene	47.2	1.3	50	0	94	69	130	43.37	8.4(20)	
Surr: 1,2-Dichloroethane-d4	41.7		50		83	70	130			
Surr: Toluene-d8	44.1		50		88	70	130			
Surr: 4-Bromofluorobenzene	49.6		50		99	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:
08-Jun-15

QC Summary Report

Work Order:
15060343

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

RUSH! CA

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

WorkOrder : STR15060343
Report Due By : 5:00 PM On : 03-Jun-15

Client:
 Stratus Environmental
 3330 Cameron Park Drive
 Suite 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 # : 12185, 12184 Job : Olympic Station

Cooler Temp	Samples Received	Date Printed
0 °C	03-Jun-15	03-Jun-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix	No. of Bottles Date Alpha Sub TAT	Requested Tests						Sample Remarks						
				TPHP_A	TPHP_W	VOC_A	VOC_W									
STR15060343-01A	Oly W EFF	AQ	06/02/15 05:15	3	0	0		GAS-C	BTEX/M_C							
STR15060343-02A	Oly A EFF	AR	06/02/15 05:40	1	0	0		GAS-N/C	BTEX/MTB E							Tedlar.

Comments: ASAP TAT. Security seals intact. Frozen ice. Chains combined by job name and split by TATs for reporting purposes. :

Signature	Print Name	Company	Date/Time
	JESSICA ALVARADO	Alpha Analytical, Inc.	6/3/15 1040

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: Stratus
 Attn: Debra
 Address: 3550 Cummings Dr DR
Channahon IL
 City, State, Zip: _____
 Phone Number: _____ Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
 Satellite Service Centers:
 Northern CA: 9991 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90748

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-8089
 Phone: 702-281-4848
 Phone: 714-366-2901

12185

Page # 1 of 1

Consultant/Client Info:
 Company: Stratus
 Address: _____
 City, State, Zip: _____

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

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

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

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

Time Sampled (HHMM)	Date Sampled (MMDD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested			Remarks
								TPH	BTEX	MTBL	
0520	6/15	AQ		Oily w INF	STD	N	3	X	X	X	
0521				Oily w GAC1	STD	N	3	X	X	X	
0517				Oily w GAC2	STD	N	3	X	X	X	
0519	6/15	NR	STR15000343	Oily w INF	24	N	3	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>Grill</u>	Date: <u>6/2/15</u>	Time: <u>1150</u>	Received by: (Signature/Affiliation): <u>Maryssa T</u>	Date: <u>6-2-15</u>	Time: <u>1158</u>
Relinquished by: (Signature/Affiliation): <u>Cheryl Strata</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>6/3/15</u>	Time: <u>940</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

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

Company: Strat's
 Attn: Dibbie
 Address: 3330 Cameron Pk
 City, State, Zip: Carson CA
 Phone Number: _____ Fax: _____



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 NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

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

12184

Page # 1 of 1

Company: Strat's
 Address: _____
 City, State, Zip: _____

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

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

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

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

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested			Remarks
								GRD	BYEX	MTBE	
0535	6/3	AK		Oly A SS IMP STD	24	N	1	X	X	X	
0540	6/3	AK	STR15D003AB 02A	Oly A EFF	24	N	1	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>[Signature]</u>	Date: <u>6-2-15</u>	Time: <u>1150</u>	Received by: (Signature/Affiliation): <u>Maryssa</u>	Date: <u>6-2-15</u>	Time: <u>1150</u>
Relinquished by: (Signature/Affiliation): <u>[Signature]</u>	Date: _____	Time: _____	Received by: (Signature/Affiliation): <u>[Signature]</u>	Date: <u>6/3/15</u>	Time: <u>940</u>
Relinquished by: (Signature/Affiliation): _____	Date: _____	Time: _____	Received by: (Signature/Affiliation): _____	Date: _____	Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other ** L - Liter V - VOA S-Soil Jar O - Orbo T - Teclar 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**

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GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

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<u>Submittal Type:</u>	GEO_WELL
<u>Report Title:</u>	2nd Quarter 2015 Geo Well
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	GEO_WELL.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>	4/22/2015 11:17:13 AM
<u>Confirmation Number:</u>	7546747565

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<u>Report Title:</u>	2nd Quarter 2015 Groundwater Monitoring Analytical Results
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15041540_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>	5/13/2015 7:58:55 AM
<u>Confirmation Number:</u>	2083884954

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	2Q15 QMR 5-5-15 AINF
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15050647_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>	7/8/2015 2:03:49 PM
<u>Confirmation Number:</u>	9655294835

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<u>Report Title:</u>	2Q15 QMR 5-5-15 AEFF
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15050646_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>	7/8/2015 2:04:51 PM
<u>Confirmation Number:</u>	9577384710

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<u>Report Title:</u>	2Q15 QMR 5-5-15 WINF
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15050650_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>	7/8/2015 2:05:43 PM
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<u>Report Title:</u>	2Q15 QMR 5-5-15 WEFF
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15050645_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>	7/8/2015 2:06:14 PM
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<u>Report Title:</u>	2Q15 QMR 6-2-15 WINF-AINF
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15060351_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>	7/8/2015 2:06:52 PM
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<u>Report Title:</u>	2Q15 QMR 6-2-15 WEFF-AEFF
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15060343_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>	7/8/2015 2:07:34 PM
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