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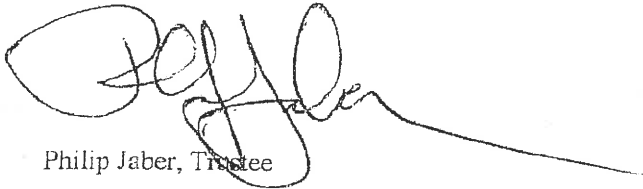
Mr. Mark Detterman
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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

March 7, 2016
Project No. 2115-1436-01

Mr. Mark Detterman, P.G.
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Additional Site Assessment and Expanded Water Supply Well Survey Report**
Former Olympic Service Station
1436 Grant Avenue, San Lorenzo, California
LOP Case #RO0000373

Dear Mr. Detterman:

Stratus Environmental, Inc. (Stratus), on behalf of Mr. Philip Jaber and the George and Frida Jaber 1989 Family Trust, has prepared this *Additional Site Assessment and Expanded Water Supply Well Survey Report (Report)* for the Former Olympic Service Station located at 1436 Grant Avenue in San Lorenzo, California (the site, see Figures 1 and 2). Alameda County Environmental Health Department (ACEHD) currently regulates an environmental case on the subject property relating to a historical release of motor vehicle fuel to the subsurface. At the request of ACEHD, on August 12, 2015, Stratus prepared and submitted a document titled *Focused Site Conceptual Model and Work Plan for Additional Site Assessment and Expanded Water Supply Well Survey (Work Plan)*. This document included a proposal to drill and install two additional shallow screened groundwater monitoring wells, install two additional soil vapor sampling points, collect soil vapor samples from all of the site's vapor points (for comparison against pre-remediation data, discussed further below), and conduct a field reconnaissance downgradient of the site to attempt to locate any unknown water supply wells. After reviewing the *Work Plan*, ACEHD issued a letter, dated October 5, 2015, which approved, with comments, the proposed scope of work. Stratus recently implemented the tasks outlined in the *Work Plan*, and this report has been prepared to document the activities completed and present findings associated with this work.

SITE DESCRIPTION

The subject site is located on the southern corner of the intersection of Grant Avenue and Channel Street in San Lorenzo, California. The site previously operated as an Olympic service station; it is currently operated as San Lorenzo Auto Repair. The current configuration of the property is depicted on Figure 2.

The adjoining property to the southwest and south is developed as the Arroyo Center strip mall. Properties to the north and northwest (across Grant Avenue) are developed as single family detached residences, and the property to the east and northeast (across Channel Street) has been developed as multi-family housing units (apartments or condominiums). A parking lot and athletic fields for Arroyo High School are situated on property north of Grant Avenue, across the intersection.

SITE BACKGROUND SUMMARY

The following information has been summarized based on information presented in reports prepared by Reese Construction, Aqua Science Engineers, Inc. (ASE), and Conestoga-Rovers & Associates (CRA), and work performed by Stratus.

The former underground storage tanks (USTs) and associated product dispensers were removed in 1998. Eight groundwater monitoring wells (MW-1 through MW-4, MW-5A/B, MW-6A/B), five soil vapor sampling points (SV-1 through SV-5), seven extraction wells (EX-1 through EX-7), two ozone injection wells (IW-1 and IW-2), and nineteen exploratory soil borings (BH-A through BH-C, B-1 through B-13, and B-13A through B-13C) were installed between 1999 and 2014. Locations of the wells, vapor sampling points, and soil borings are shown on Figure 2. Drilling and well construction details are summarized in Table 1.

Chemicals of concern (COCs) at this site include gasoline-range organics (GRO)/total petroleum hydrocarbons as gasoline (TPHG), benzene, toluene, ethylbenzene, and xylenes (BTEX), and the gasoline additive methyl tertiary butyl ether (MTBE). Between 1999 and 2015, groundwater levels beneath the property have ranged between approximately 5.2 and 11.2 feet below ground surface (bgs) (see Table 2). The site is currently under a semi-annual groundwater monitoring and sampling program; although recently two wells (MW-5A and MW-6A) have been sampled on a quarterly basis. A review of Table 1 indicates that three site wells (MW-4, MW-5A, and MW-6A) have been installed to approximately 10 feet bgs, while the other monitoring / extraction wells have been installed to depths ranging from approximately 20 to 26 feet bgs. In general, fuel contaminant concentrations in the MW-4, MW-5A, and MW-6A samples are higher than contaminant levels in the other wells. Information regarding current groundwater concentrations beneath the site is discussed later in this document.

Groundwater samples have historically been analyzed for diesel-range organics (DRO) and the fuel additives di-isopropyl ether (DIPE), tertiary amyl butyl ether (TAME), ethyl tertiary butyl ether (ETBE), tertiary butyl alcohol (TBA), 1,2-dichlorethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol. These analytes are not currently included in the groundwater analytical suite.

In general, most soils situated in the upper 15 to 18 feet of the subsurface appear to be predominately fine grained (mixtures of silt/clay, exclusive of fill material). Below this depth, to approximately 25 feet bgs, soil strata have been described as silty sand, clayey sand, and sand.

Soil vapor sampling was performed at the site in 2010, and data from this sampling event is presented in Table 3. In general, relatively high concentrations of GRO and BTEX were detected in these samples. GRO and benzene were reported at maximum levels of 52,000,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and 160,000 $\mu\text{g}/\text{m}^3$, respectively, at that time. Data from this sampling event will be discussed in context with the recent soil vapor samples, which were collected following performance of dual phase extraction (DPE) remediation.

Most of the petroleum hydrocarbon impact to the subsurface appears to have been situated above approximately 20 feet bgs, and in relatively close proximity to the former USTs and fuel dispenser islands (samples collected prior to DPE remediation are discussed below). In a September 2012 Corrective Action Plan (CAP), Stratus estimated that a mass of 955 pounds of TPHG/GRO were present in soil at the site above 20 feet bgs.

Based on our general understanding of the distribution of contaminants beneath the property, site geologic conditions, and depth to groundwater levels, DPE was selected as a possible remedial alternative for the site. In June 2011, a DPE pilot test was performed at the site, using wells EX-1 through EX-3 for extraction. Based on the findings of this test, DPE was deemed by Stratus to be a viable remedial alternative for the site. Stratus subsequently prepared a CAP for the property, recommending use of DPE at the site, and after receiving approval of this document, installed four additional extraction wells (EX-4 through EX-7).

In July 2014, Stratus initiated full scale DPE at the subject site. As of December 2, 2015, an estimated mass of 983 pounds of GRO have been removed from the subsurface in the vapor phase. Since initiation of DPE, a total of approximately 1,491,520 gallons of groundwater have been extracted from the subsurface, treated onsite using granular activated carbon (GAC), and discharged to the local sewer system. Influent vapor phase concentrations of fuel contaminants have declined appreciably over time, and since the summer of 2015, relatively low concentrations of fuel contaminants were being removed from the subsurface.

SCOPE OF WORK

The objectives of the proposed scope of work were to:

- Further assess the lateral extent of fuel contaminant impact to shallow groundwater west (generally downgradient) of the site.

- Evaluate current concentrations of petroleum hydrocarbons in shallow soil vapor.
- Attempt to locate any undocumented water supply wells that may potentially be threatened from dissolved fuel contaminants originating from the site.

To accomplish this objective, Stratus implemented the following work activities:

- Drilled and installed two (2) 2-inch diameter groundwater monitoring wells (MW-7A and MW-8A) to approximately 12 feet bgs using hollow stem augers.
- Installed two soil vapor sampling points (SV-6 and SV-7) to approximately 5.5 feet bgs using hand tools.
- Developed and sampled each newly completed monitoring well.
- Collected soil vapor samples from SV-1, SV-2, SV-4, SV-6, and SV-7.
- Surveyed each newly constructed monitoring well and soil vapor sampling point.
- Conducted a door-to-door field reconnaissance in the neighborhood within a 500-foot radius west (downgradient) of the site to attempt to locate any water wells currently unknown to Stratus and ACEHD.

WATER SUPPLY WELL FIELD RECONNAISSANCE

CRA performed a water well survey using Department of Water Resources (DWR) well completion records obtained in 2008. At this time, no wells were identified within a 1,000-foot radius of the site.

At the request of ACEHD, Stratus conducted a door-to-door field reconnaissance north, south, west, southwest, and northwest (downgradient to cross gradient) of the site in order to attempt to locate any wells that were undocumented with DWR. The field reconnaissance focused on residential areas located within approximately 500 to 700 feet to the south, north, and west of the site (see Figure 3). Stratus visited the area between 2:00 and 6:00 p.m. on December 16, 2015. On this date, 67 residences were visited, and contact was made with 44 of these owners/tenants. Each property was initially visited, and then a return visit was made between 5:00 and 6:00 p.m. at residences where no one was home earlier in the day.

Table 4 presents a summary of the findings of the water well survey. Stratus identified three residences that utilize water wells (at 1408 Via Barrett, 1587 Via Rancho, and 15857 Via Seco). The locations of these properties are shown on Figure 3. At each of these three residences, Stratus was verbally informed by the owner/tenant the wells were used exclusively for irrigation (lawn watering and landscaping). No information regarding the construction specifications of the wells is known. It is our understanding

that all residences in this area are served by municipal water, and no residences using wells for household consumption were located. Given the use of these wells, we expect that the wells are used intermittently and seasonally, with most groundwater pumping occurring during the late spring, summer, and fall months when precipitation is limited.

FIELD ACTIVITIES

Prior to initiating site assessment activities, a drilling permit was obtained from Alameda County Public Works Agency (ACPWA). Underground Service Alert, the Jaber's, the property tentant, ACPWA, and ACEHD were notified 48 hours prior to beginning work activities. All work was conducted under the direct supervision of a State of California Registered Professional Geologist. A generalized description of the field practices and procedures utilized during the drilling work performed during this phase of investigation are described in Appendix A. A copy of the drilling permit is provided in Appendix B.

Soil Borings

A Stratus geologist was onsite to oversee Penecore Drilling, Inc. (C-57 license no. 906899) complete the drilling activities on December 4, 2015. The well borings were advanced using a limited access hollow stem auger drill rig equipped with 8-inch diameter hollow stem augers. The soil vapor point borings were advanced using hand tools. Each boring was converted to a groundwater monitoring well or soil vapor point, as described below. Well locations are depicted on Figure 2, and information regarding the construction details of MW-7A, MW-8A, SV-6, and SV-7, is summarized on Table 1.

The initial 5 feet of the well borings were advanced with hand tools to reduce the possibility of damaging underground utilities. Soil samples were collected from borings MW-7A and MW-8A using 5-foot length by 2.5-inch diameter acetate liners installed within a direct push coring device. The ends of the acetate liners (cut to approximately 6-inch length) were lined with Teflon™ sheets, capped, and sealed. Each sample was labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler. Strict chain-of-custody procedures were followed from the time the samples were collected until the time the samples were relinquished to the laboratory. Soils were classified onsite using the Unified Soil Classification System. Boring logs detailing soil and lithologies encountered during this investigation are included in Appendix B. The boring logs were also uploaded to Geotracker (GeoBore); confirmation sheets documenting uploading of these boring logs are provided in Appendix F.

Monitoring Well Installation

Wells MW-7A and MW-8A were constructed through 8-inch diameter hollow stem augers using 2-inch diameter schedule 40 PVC well casing and 8 feet of 0.02-inch diameter factory slotted well screen, situated from approximately 4 to 12 feet bgs. A

filter pack of #3 sand was placed in the annular space around the well screen from the bottom of the borehole to approximately one foot above the top of the well screen. Approximately one foot of bentonite was placed on top of the filter pack and hydrated with clean water to provide a transition seal for the well. The remaining annular space in the borehole was backfilled with neat cement. A traffic rated vault box was placed over each well, and a watertight locking cap was placed on the top of the well casing. DWR well completion forms were prepared and submitted for wells MW-7A and MW-8A.

Soil Vapor Point Installation

SV-6 and SV-7 were installed within a borehole approximately 2.5 inches in diameter and 6 feet in depth. A 2-inch length stainless steel mesh soil vapor implant attached to 0.25-inch diameter Teflon tubing was installed near the base of the borehole (5.3 to 5.5 feet bgs). A filter pack of graded sand was placed around the soil vapor implant from approximately 5 to 6 feet bgs. Granular bentonite was placed on top of the filter pack sand from approximately 1 to 5 feet bgs and hydrated with clean water. The remaining annular space was backfilled with neat cement. A traffic-rated vault box was installed over the top of each soil vapor point. Diagrams illustrating the construction details of SV-6 and SV-7 are provided in Appendix B.

Well Development and Sampling

Stratus personnel developed wells MW-7A and MW-8A on December 9, 2015. The wells were developed by surging and bailing. Approximately 3 to 4 well casing volumes were removed during development until the wells bailed dry. Stratus returned to the site on December 17, 2015 to collect samples from MW-7A and MW-8A. Wells MW-7A and MW-8A were also sampled on January 11, 2016, as part of the first quarter 2016 groundwater monitoring and sampling event. A purge groundwater sample was collected from each well, transferred to laboratory supplied, preserved, glass vials (voas), labeled, identified on a chain-of-custody form, and stored in an ice-chilled cooler before delivery to a state-certified laboratory for chemical analysis. Field data sheets documenting measurements and observations during well development and sampling are provided in Appendix C.

Soil Vapor Sampling

Stratus visited the site on January 28, 2016 to collect soil vapor samples from SV-1 through SV-7. Prior to collecting the soil vapor samples, the DPE remediation system was turned off on December 29, 2015, in order to allow for subsurface conditions to 'stabilize' and enable a representative evaluation of fuel contaminants in shallow soil vapor. Prior to sampling, expendable SUMMA™ canisters were used to purge ambient air situated inside of the sand filter pack and the Teflon tubing connected to the soil vapor wells. Following purging of this ambient air, a separate 1-liter SUMMA™ canister was

used to collect each soil vapor sample. Per ACEHD's request, a shroud provided by the laboratory that supplied the SUMMA™ canisters was used while collecting soil vapor samples. In order to maintain a contained 'atmosphere' within the shroud while sampling, Stratus utilized paper towels saturated with iso-propyl alcohol for leak detection instead of spraying 1,1-difluoroethane on the sampling train (which would require lifting the shroud to apply the leak detection gas). The SUMMA™ canisters were filled at a regulated maximum flow rate of 200 milliliters per minute (ml/min). Following collection of the samples, the SUMMA™ canisters were stored at ambient air temperature, using proper chain-of-custody procedures, until delivered to the analytical laboratory for chemical analysis. A field data sheet documenting measurements collected during soil vapor sampling, and a generalized schematic diagram of soil vapor sampling equipment similar to the equipment provided by the laboratory for collection of the January 2016 soil vapor samples, is included in Appendix C. Soil vapor probes SV-3 and SV-5 could not be sampled on January 28, 2016, due to the presence of water within the sampling tubing; these soil vapor probes will be sampled at a later date if directed by ACEHD personnel.

Surveying

Morrow Surveying, Inc. of West Sacramento, California, surveyed the elevations and locations of the newly constructed wells and soil vapor probes under the direction of a State of California professional land surveyor (P.L.S. No. 5161). Well elevations were established to the nearest 0.01 vertical feet and tied to a previous survey performed at the site. Latitudes and longitudes of all wells were established using the Global Positioning System (GPS). California State Plane Coordinates, latitudes and longitudes of the wells, and well elevations are included on the surveyor's map presented in Appendix D. Well survey data was forwarded to the California State Water Resources Control Board for inclusion in the Geotracker database (see Appendix F for documentation).

Analytical Methods

Groundwater samples were forwarded to Alpha Analytical, Inc., a California state-certified laboratory (ELAP #2019), for chemical analysis under strict chain-of-custody procedures. The samples were analyzed for GRO using United States Environmental Protection Agency (USEPA) Method SW8015B/SW8260B, and for BTEX and MTBE using USEPA Method SW8260B. Table 2 presents a summary of historical and current well sampling analytical data. Certified analytical reports and chain-of-custody documentation are provided in Appendix E. The certified analytical reports prepared by Alpha Analytical have been uploaded to the State of California's GeoTracker database; upload confirmation documentation for these lab results are included in Appendix F.

Soil vapor samples were forwarded to BC Laboratories, Inc., a California state-certified laboratory (ELAP #1186), for chemical analysis under strict chain-of-custody procedures.

The samples were analyzed for GRO, BTEX, MTBE, naphthalene, and isopropyl alcohol (leak detector) using EPA Method TO-15, and for carbon dioxide, methane, and oxygen using American Society of Testing and Materials (ASTM) Method D1946. Soil vapor analytical results are summarized on Table 3. Certified analytical reports and chain-of-custody documentation are provided in Appendix E. The certified analytical reports prepared by BC Laboratories have been uploaded to the State of California's GeoTracker database; upload confirmation documentation for these lab results are included in Appendix F.

FINDINGS

Groundwater Analytical Results

Figures 4 through 12 illustrate the approximate distribution of GRO, benzene, and MTBE in groundwater using all available data collected at the site during the fourth quarter 2015 and first quarter 2016. This data is provided in this report so that the data collected from newly installed wells MW-7A and MW-8A may be viewed in context with the other site groundwater data as a whole.

GRO was detected in the samples collected from wells MW-7A and MW-8A, at concentrations of 350 micrograms per liter ($\mu\text{g/L}$) and 210 $\mu\text{g/L}$, respectively in December 2015. In the January 2016 well samples, GRO was detected at 470 $\mu\text{g/L}$ at MW-7A, but was not detected in the MW-8A sample.

MTBE was also detected in the samples collected from both MW-7A and MW-8A in December 2015 and January 2016, at concentrations of 37 $\mu\text{g/L}$ and 20 $\mu\text{g/L}$ (MW-7A), and 0.63 $\mu\text{g/L}$ and 0.65 $\mu\text{g/L}$ (MW-8A). Ethylbenzene was also reported in the MW-7A samples, at concentrations of 1.2 $\mu\text{g/L}$ in December 2015 and 4.6 $\mu\text{g/L}$ in January 2016.

Soil Vapor Analytical Results

GRO was detected in one soil vapor sample (SV-6, at 6,900 $\mu\text{g/m}^3$). All other concentrations of fuel contaminants were reported below laboratory instrument detection limits in the five samples. Isopropyl alcohol was not detected in any of the samples, and thus no leakage in the sampling equipment is suspected. Figure 13 summarizes GRO, benzene, and MTBE concentrations in shallow soil vapor.

DISCUSSION

A review of Table 3 illustrates that substantial reductions in shallow soil vapor concentrations have occurred since the time of the previous sampling in February 2010, likely due to use of DPE remediation equipment. In addition, since benzene, ethylbenzene, and naphthalene were not detected in any of the samples, the site meets the

soil vapor media criteria of the State Water Resources Control Board's Low Threat Closure Policy (LTCP) necessary for eventual environmental case closure. The site also meets soil vapor Environmental Screening Levels established by the San Francisco Bay Regional Water Quality Control Board.

Given the findings of the shallow soil vapor sampling, Stratus intends to de-mobilize the DPE system (thermal oxidizer) from the site, as further use of this equipment does not appear cost effective. In the meantime, Stratus will not de-mobilize the GAC groundwater treatment equipment from the site, pending a review of this report by ACEHD, in the event that additional groundwater remediation at the site is necessary.

As stated earlier, Stratus identified three properties near the site that use water wells for irrigation. The well located at 1408 Via Barrett is located 150 to 200 feet north of the site, directly across Grant Avenue. The other two irrigation wells identified are located further away from the site, but are situated more hydraulically downgradient. Following a review of this report, Stratus will contact ACEHD personnel in order to evaluate if additional groundwater monitoring wells (or 'sentry wells') are necessary in order to further define the shallow groundwater plume.

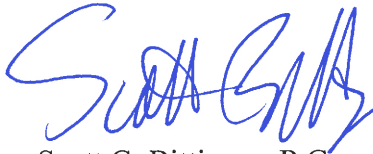
LIMITATIONS

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.

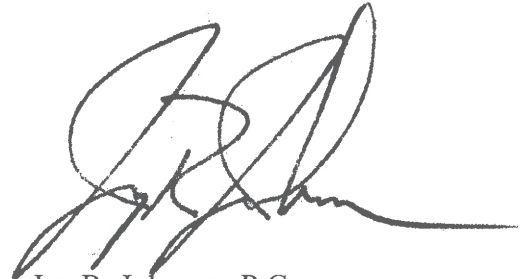
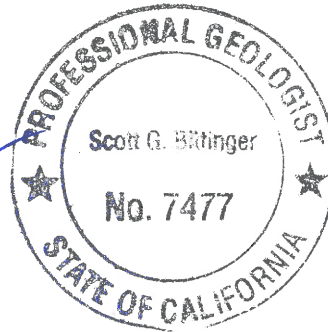
March 7, 2016

If you have any questions regarding this document, or the project in general, please contact Scott Bittinger at (530) 676-2062 or Gowri Kowtha at (530) 676-6001.

Sincerely,
STRATUS ENVIRONMENTAL, INC.



Scott G. Bittinger, P.G.
Project Geologist



Jay R. Johnson, P.G.
Senior Project Supervisor

ATTACHMENTS:

Table 1	Well Construction Detail Summary
Table 2	Groundwater Elevation and Analytical Summary
Table 3	Soil Vapor Analytical Summary
Table 4	Door to Door Well Search Results
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Water Supply Well Location Map
Figure 4	GRO in Groundwater, 10-12' Depth Wells, 4th Quarter 2015
Figure 5	Benzene in Groundwater, 10-12' Depth Wells, 4th Quarter 2015
Figure 6	MTBE in Groundwater, 10-12' Depth Wells, 4th Quarter 2015
Figure 7	GRO in Groundwater, 20-26' Depth Wells, 4th Quarter 2015
Figure 8	Benzene in Groundwater, 20-26' Depth Wells, 4th Quarter 2015
Figure 9	MTBE in Groundwater, 20-26' Depth Wells, 4th Quarter 2015
Figure 10	GRO in Groundwater, 10-12' Depth Wells, 1st Quarter 2016
Figure 11	Benzene in Groundwater, 10-12' Depth Wells, 1st Quarter 2016
Figure 12	MTBE in Groundwater, 10-12' Depth Wells, 1st Quarter 2016
Figure 13	Soil Vapor Analytical Result Summary, 1st Quarter 2016
Appendix A	Field Practices and Procedures
Appendix B	Soil Boring Logs, Soil Vapor Point Construction Details, and Drilling Permit
Appendix C	Field Data Sheets and Schematic Diagram of Soil Vapor Sampling Equipment
Appendix D	Surveyor's Map
Appendix E	Certified Analytical Reports and Chain-of-Custody Documentation
Appendix F	GeoTracker Data Upload Confirmation Sheets

cc: Mr. Philip Jaber
Ms. Cherie McCaulou, RWQCB (via GeoTracker)

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
Groundwater Monitoring Wells								
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
MW-7A	12/04/15	12	8	2	4-12	0.020	HSA	Stratus Environmental
MW-8A	12/04/15	12	8	2	4-12	0.020	HSA	Stratus Environmental
Extraction Wells								
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
Injection Wells								
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
Soil Vapor Sampling Points								
SV-1	02/12/10	5.5	3.25	0.375	5-5.1	0.002	HA	Conestoga-Rovers & Assoc.
SV-2	02/09/10	5.5	3.25	0.375	5-5.1	0.002	HA	Conestoga-Rovers & Assoc.
SV-3	02/09/10	5.5	3.25	0.375	5-5.1	0.002	HA	Conestoga-Rovers & Assoc.
SV-4	02/09/10	5.5	3.25	0.375	5-5.1	0.002	HA	Conestoga-Rovers & Assoc.
SV-5	05/20/11	5.5	3.25	0.375	5-5.1	0.002	HA	Stratus Environmental, Inc.
SV-6	12/04/15	6	2.5	0.25	5.3-5.5	mesh	HA	Stratus Environmental, Inc.
SV-7	12/04/15	6	2.5	0.25	5.3-5.5	mesh	HA	Stratus Environmental, Inc.
Notes:								
HSA = Hollow Stem Auger								
HA = Hand 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)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	ETBE (µg/L)	TBA (µg/L)	Ethanol (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)
MW-1	10/06/99	8.35	15.00	6.65	--	--	84**	3,900*	<25	<25	<25	<25	3,500	--	--	--	--	--	--	--
	01/13/00	7.90		7.10	--	--	<50	<1,300	18	<13	<13	<13	1,700	--	--	--	--	--	--	--
	04/12/00	7.08		7.92	--	--	56***	<1,000	66	<10	<10	<10	1,600	--	--	--	--	--	--	--
	07/19/00	7.66		7.34	--	--	52**	<1,000	<10	<10	<10	<10	1,200	--	--	--	--	--	--	--
	10/25/00	7.91		7.09	--	--	76***	4,100*	120	<25	<25	<25	6,100	--	--	--	--	--	--	--
	02/16/07	6.32		8.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/01/07	5.88		9.12	--	<250	<50	<50	<1.2	<1.2	<1.2	<1.2	78	<1.2	<1.2	<1.2	<12	<120	<1.2	<1.2
	05/01/07	7.24	15.71	8.47	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	250	<5.0	<5.0	<5.0	<50	<500	<5.0	<5.0
	08/01/07	7.77		7.94	--	--	<50	<50	<25	<25	<25	<25	520	<25	<25	<25	<250	<2,500	<25	<25
	11/01/07	7.71		8.00	--	--	<50	<50	<12	<12	<12	<12	460	<12	<12	<12	<120	<1,200	<12	<12
	02/01/08	5.71		10.00	--	--	<50	<50	<2.5	<2.5	<2.5	<2.5	110	<2.5	<2.5	<2.5	<10	<250	<2.5	<2.5
	05/02/08	7.52		8.19	--	<250	<50	<50	<5.0	<5.0	<5.0	<5.0	240	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0
	08/01/08	8.02		7.69	--	--	<50	<50	<10	<10	<10	<10	500	<10	<10	<10	<40	<1,000	<10	<10
	11/04/08	7.28		8.43	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	260	<5.0	<5.0	<5.0	26	<500	<5.0	<5.0
	08/11/09	8.08		7.63	--	--	<50	<50	<5.0	<5.0	<5.0	<5.0	270	<5.0	<5.0	<5.0	<20	<500	<5.0	<5.0
	02/03/10	6.14		9.57	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	39	--	--	--	--	--	--	--
	05/18/10	7.09		8.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/10	7.65		8.06	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	350	--	--	--	--	--	--	--
	02/04/11	7.20		8.51	--	--	--	<50	0.90	<0.5	<0.5	<0.5	62	--	--	--	--	--	--	--
	06/03/11	7.28	18.60	11.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/02/11	7.47		11.13	--	--	--	120	<0.50	<0.50	<0.50	<0.50	160	--	--	--	--	--	--	--
	09/29/11	7.83		10.77	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/12/11	7.03		11.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/09/11	7.55		11.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/12/11	7.81		10.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/12	6.45		12.15	--	--	--	55	<0.50	<0.50	<0.50	<0.50	71	--	--	--	--	--	--	--
	08/28/12	7.81		10.79	--	--	--	120	<0.50	<0.50	<0.50	<0.50	240	--	--	--	--	--	--	--
	02/27/13	7.32		11.28	--	--	--	61	<0.50	<0.50	<0.50	<0.50	69	--	--	--	--	--	--	--
	08/26/13	8.05		10.55	--	--	--	470	<0.50	<0.50	<0.50	<0.50	590	--	--	--	--	--	--	--
	06/19/14	7.86		10.74	--	--	--	190	<0.50	<0.50	<0.50	<0.50	230	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.53		10.07	--	--	--	330	<0.50	<0.50	<0.50	<0.50	450	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.00		10.00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	1.0	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-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	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.11		9.84	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	39	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-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	--	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.07		9.92	--	--	--	1,100	14	<2.0[2]	2.0	<2.0[2]	1,400	--	--	--	--	--	--	--	
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	
	07/14/15	7.85		10.09	--	--	--	2,800	390	<2.0[2]	130	40	13	--	--	--	--	--	--	--	
	10/20/15	8.21		9.73	--	--	--	1,300	310	<1.5[2]	55	4.5	13	--	--	--	--	--	--	--	
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	6.20		11.74	--	--	--	1,100	230	<1.0[2]	42	<1.0[2]	<1.0[2]	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/20/15	8.10		9.82	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	--	--	--	--	--	
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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-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	--	--	--	--	--	--	--
	07/14/15	8.00		10.05	--	--	--	4,400	930	<5.0[2]	200	263	99	--	--	--	--	--	--	--
	10/20/15	8.34		9.71	--	--	--	5,700	1,300	<10[2]	170	380	110	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	6.13		11.92	--	--	--	1,700	480	<2.0[2]	<2.0[2]	52.7	43	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	7.91		9.78	--	--	--	<100	<0.50	<0.50	<0.50	<0.50	40	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7A	12/17/15	8.04	17.65	9.61	--	--	--	350	<0.50	<0.50	1.2	<0.50	37	--	--	--	--	--	--	
	01/11/16	6.42		11.23	--	--	--	470	<0.50	<0.50	4.6	<0.50	20	--	--	--	--	--	--	
MW-8A	12/17/15	7.25	18.08	10.83	--	--	--	210	<0.50	<0.50	<0.50	<0.50	0.63	--	--	--	--	--	--	
	01/11/16	7.02		11.06	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	0.65	--	--	--	--	--	--	
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	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/20/15	8.25		9.89	--	--	--	67	4.3	<0.50	1.2	<0.50	36	--	--	--	--	--	--	
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
01/11/16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			

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-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	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.03		10.11	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	37	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	10/20/15	7.83		9.80	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	--	--	--	--	
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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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-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	--	--	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.29		10.01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.2	--	--	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.49		9.92	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	8.9	--	--	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.45		9.84	--	--	--	180	10	<0.50	<0.50	<0.50	210	--	--	--	--	--	--	--	--	--
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	
	07/14/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10/20/15	8.13		9.93	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	5.2	--	--	--	--	--	--	--	--	
	12/17/15	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	01/11/16	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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 semivolatile organic compounds (EPA Method 8270A); all analytes reported as non-detect.

[4] = Reporting Limits were increased 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.

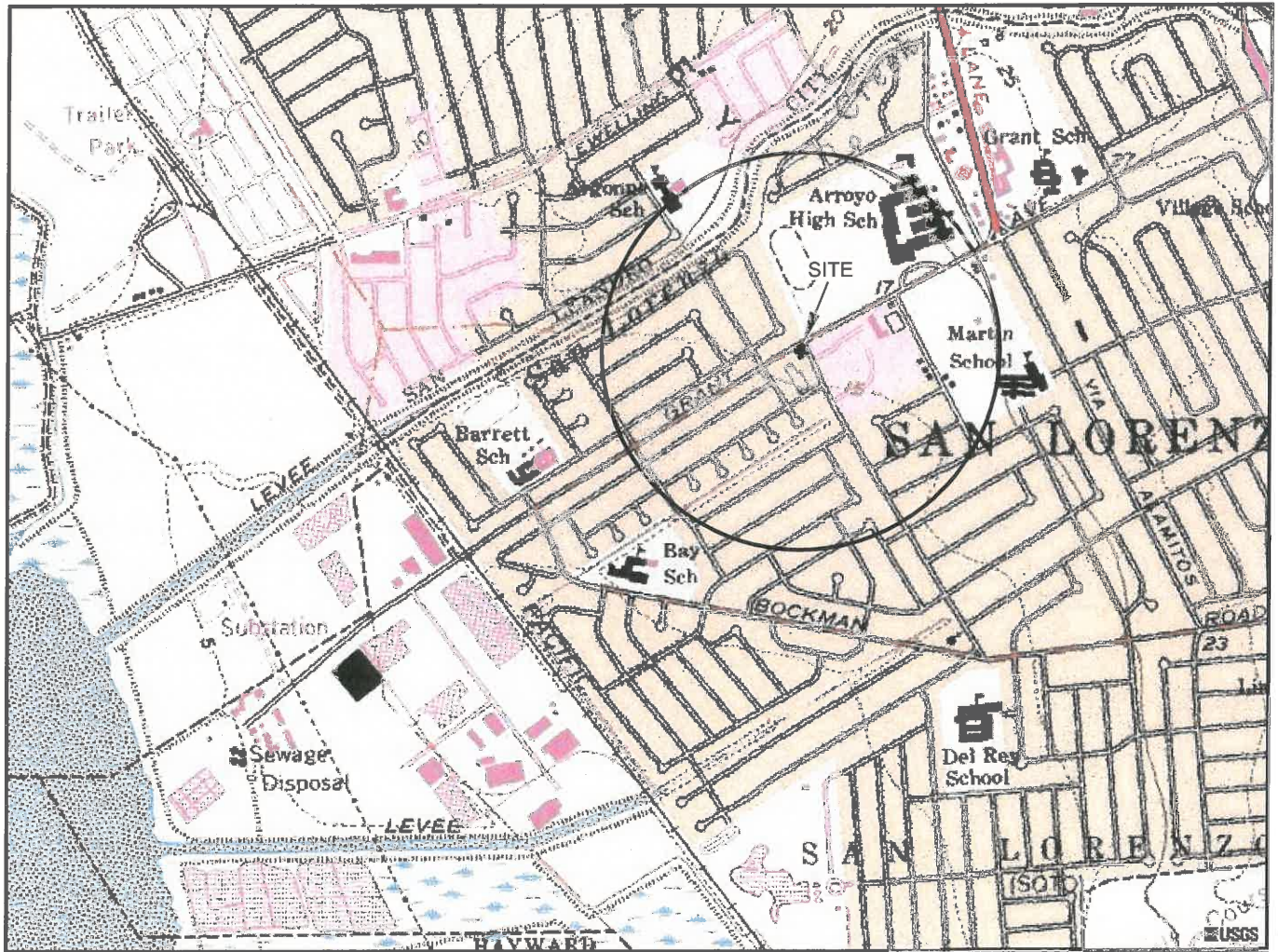
Table 3
Soil Vapor Analytical Summary
Former Olympic Station
1436 Grant Avenue, San Lorenzo, California

Sample ID	Sample Date	Depth (feet bgs)	TPH _g (µg/m ³)	Benzene (µg/m ³)	Toluene (µg/m ³)	Ethylbenzene (µg/m ³)	m,p-Xylenes (µg/m ³)	o-Xylenes (µg/m ³)	MTBE (µg/m ³)	Naphthalene (µg/m ³)	Helium (%)	Oxygen (%)	Methane (%)	Carbon Dioxide (%)
Soil Vapor ESL¹			29,000	280	180,000	3,300	58,000 (total xylenes)		31,000	240	--	--	--	--
SV-1	02/25/10	5	36,000,000	18,000	<2,100*	<2,500*	<2,500*	<2,500*	<2,000*	<12,000*	<0.11*	1.4	35	8.5
	01/28/16		<3,700, <370**	<29, <7.5**	<34, <5.7**	<39, <5.0**	<39, <11**	<39, <4.5**	<32, <4.5**	<470, <200**	NA	6.2	<0.0002, <0.0002**	1.3
SV-2	02/25/10	5	44,000,000	160,000	<2,500*	<2,900*	<2,900*	<2,900*	<2,400*	<14,000*	<0.13*	1.2	13	9.0
	01/28/16		<3,500, <350**	<27, <7.1**	<32, <5.4**	<37, <4.8**	<37, <10**	<37, <4.2**	<31, <4.3**	<450, <190**	NA	3.2	0.0044	1.1
SV-3	02/25/10	5	52,000,000	52,000	<2,200*	<2,500*	<2,500*	<2,500*	<2,100*	<12,000*	<0.12*	1.2	18	5.8
SV-4	02/25/10	5	41,000,000	120,000	<4,400*	<5,000*	<5,000*	<5,000*	5,400	<24,000*	<0.12*	1.2	5.2	9.5
	01/28/16		<3,600, <360**	<28, <7.4**	<33, <5.6**	<38, <4.9**	<38, <11**	<38, <4.4**	<32, <4.5**	<460, <190**	NA	12	0.0086	1.4
SV-6	01/28/16	5.5	6,900	<22, <5.6**	<26, <4.3**	<30, <3.8**	<30, <8.3**	<30, <3.4**	<25, <3.4**	<360, <150**	NA	1.5	0.04	1.5
SV-7	01/28/16	5.5	<2,800, <280**	<22, <5.7**	<26, <4.3**	<30, <3.8**	<30, <8.3**	<30, <3.4**	<25, <3.5**	<360, <150**	NA	13	<0.0002, <0.0002**	0.58
<i>Duplicate Sample</i>														
SV-2-D	02/25/10	5	43,000,000	160,000	<2,400*	<2,800*	<2,800*	<2,800*	<2,300*	<13,000*	<0.13*	1.1	13	8.9
<u>Explanation</u>														
TPH _g = Total Petroleum Hydrocarbons as gasoline (gasoline range organics)														
µg/m ³ = micrograms per cubic meter														
% = percent														
feet bgs = feet below ground surface														
NA = not analyzed														
* = Values shown as not detected are below the Method Detection Limit (MDL); Practical Quantitation Limit (PCL) requested by ACEHD are not available on the 2010 laboratory report.														
** = Values shown as not detected are illustrated as below the PQL, followed by below the MDL (<PQL, <MDL)														
SV-5 was installed 5/20/11, but has not been sampled.														
¹ = Table E. Environmental Screening Levels (ESLs), Indoor Air and Soil Gas (Vapor Intrusion Concerns), in Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final, San Francisco Bay Regional Water Quality Control Board, dated November 2007 (updated May 2008). Commercial scenario assumed.														

Table 4
Door-to-Door Well Search Results
Former Olympic Service Station
1438 Grant Avenue, San Lorenzo, California

Address	Status	Address	Status
1408 Via Barrett	Well In Use	1589 Via Lacqua	No Answer
1416 Via Barrett	No Well	1503 Via Rancho	No Well
1417 Via Barrett	No Well	1504 Via Rancho	No Answer
1424 Via Barrett	No Well	1517 Via Rancho	No Well
1425 Via Barrett	No Well	1518 Via Rancho	No Well
1432 Via Barrett	No Answer	1531 Via Rancho	No Well
1433 Via Barrett	No Answer	1532 Via Rancho	No Answer
1440 Via Barrett	No Answer	1545 Via Rancho	No Answer
1455 Via Barrett	No Well	1546 Via Rancho	No Answer
1456 Via Barrett	No Answer	1559 Via Rancho	No Well
1464 Via Barrett	No Well	1560 Via Rancho	No Well
1477 Via Barrett	No Answer	1573 Via Rancho	No Well
1478 Via Barrett	No Well	1587 Via Rancho	Well In Use
1484 Via Barrett	No Well	15779 Via Seco	No Answer
1520 Via Barrett	No Well	15786 Via Seco	No Well
1544 Via Barrett	No Well	15787 Via Seco	No Well
1568 Via Barrett	No Answer	15794 Via Seco	No Answer
15752 Via Esmond	No Answer	15800 Via Seco	No Well
15755 Via Esmond	No Answer	15801 Via Seco	No Well
15758 Via Esmond	No Well	15816 Via Seco	No Well
15761 Via Esmond	No Answer	15824 Via Seco	No Well
15764 Via Esmond	No Well	15825 Via Seco	No Well
15767 Via Esmond	No Well	15832 Via Seco	No Well
15770 Via Esmond	No Answer	15835 Via Seco	No Well
15773 Via Esmond	No Well	15848 Via Seco	No Answer
15776 Via Esmond	No Answer	15849 Via Seco	No Answer
15782 Via Esmond	No Well	15850 Via Seco	No Well
15788 Via Esmond	No Answer	15856 Via Seco	No Well
1482 Via Lacqua	No Answer	15857 Via Seco	Well In Use
1521 Via Lacqua	No Well	15864 Via Seco	No Well
1522 Via Lacqua	No Well	15865 Via Seco	No Well
1543 Via Lacqua	No Well	15788 Via Teresa	No Well
1544 Via Lacqua	No Well	15789 Via Teresa	No Answer
1565 Via Lacqua	No Well		

Door-to-door survey was conducted on December 16, 2015 between 2:00 and 6:00 PM. Properties that did not answer the door the first time were revisited later in the day.



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

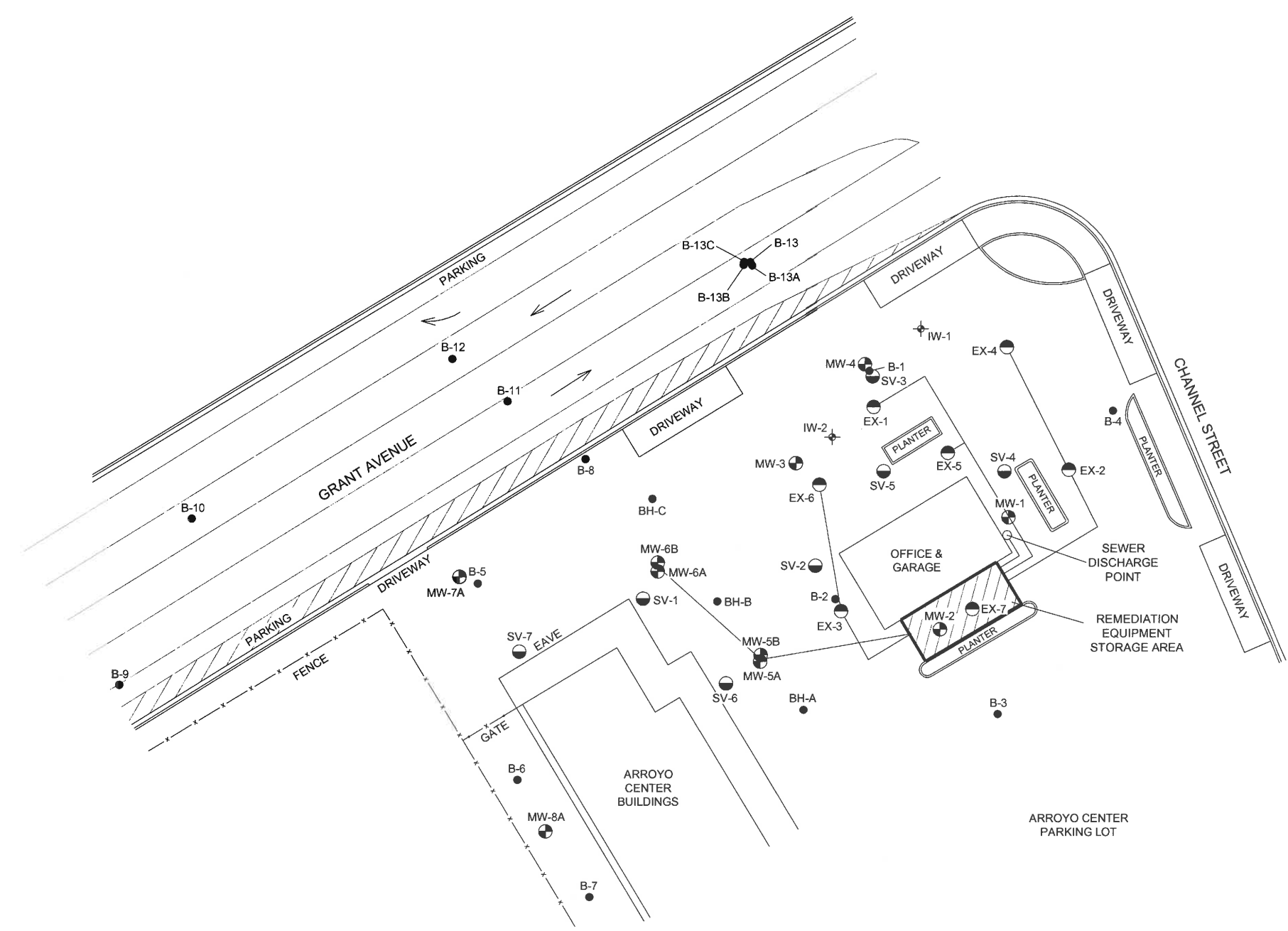
FIGURE

1

PROJECT NO.
 2115-1436-01



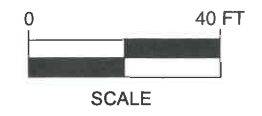
- LEGEND
- MW-1 MONITORING WELL LOCATION
 - SV-1 SOIL VAPOR PROBE LOCATION
 - EX-1 EXTRACTION WELL LOCATION
 - IW-1 OZONE INJECTION WELL LOCATION
 - B-1 SOIL BORING LOCATION
 - APPROXIMATE LOCATIONS OF ABOVE GROUND CONVEYANCE PIPING



BASED ON SURVEY PREPARED BY MORROW SURVEYING ON 6/15/11 & UPDATED IN JUNE 2014 & DECEMBER 2015.

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ENVIRONMENTAL, INC.

PATH NAME: Olympic
 DRAFTER INITIALS: DMG
 DATE LAST REVISED: January 05, 2015
 FILENAME: Olympic Siteplan




FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA

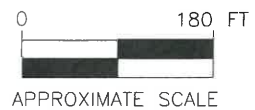
SITE PLAN

FIGURE
2
 PROJECT NO.
 2115-1436-01



LEGEND

-  LIMITS OF DOOR TO DOOR SEARCH FOR WELLS
-  PROPERTY WITH IRRIGATION WATER WELL



FORMER OLYMPIC SERVICE STATION
 1436 GRANT AVENUE
 SAN LORENZO, CALIFORNIA

WATER WELL LOCATION MAP

FIGURE
3
 PROJECT NO.
 2115-1436-01

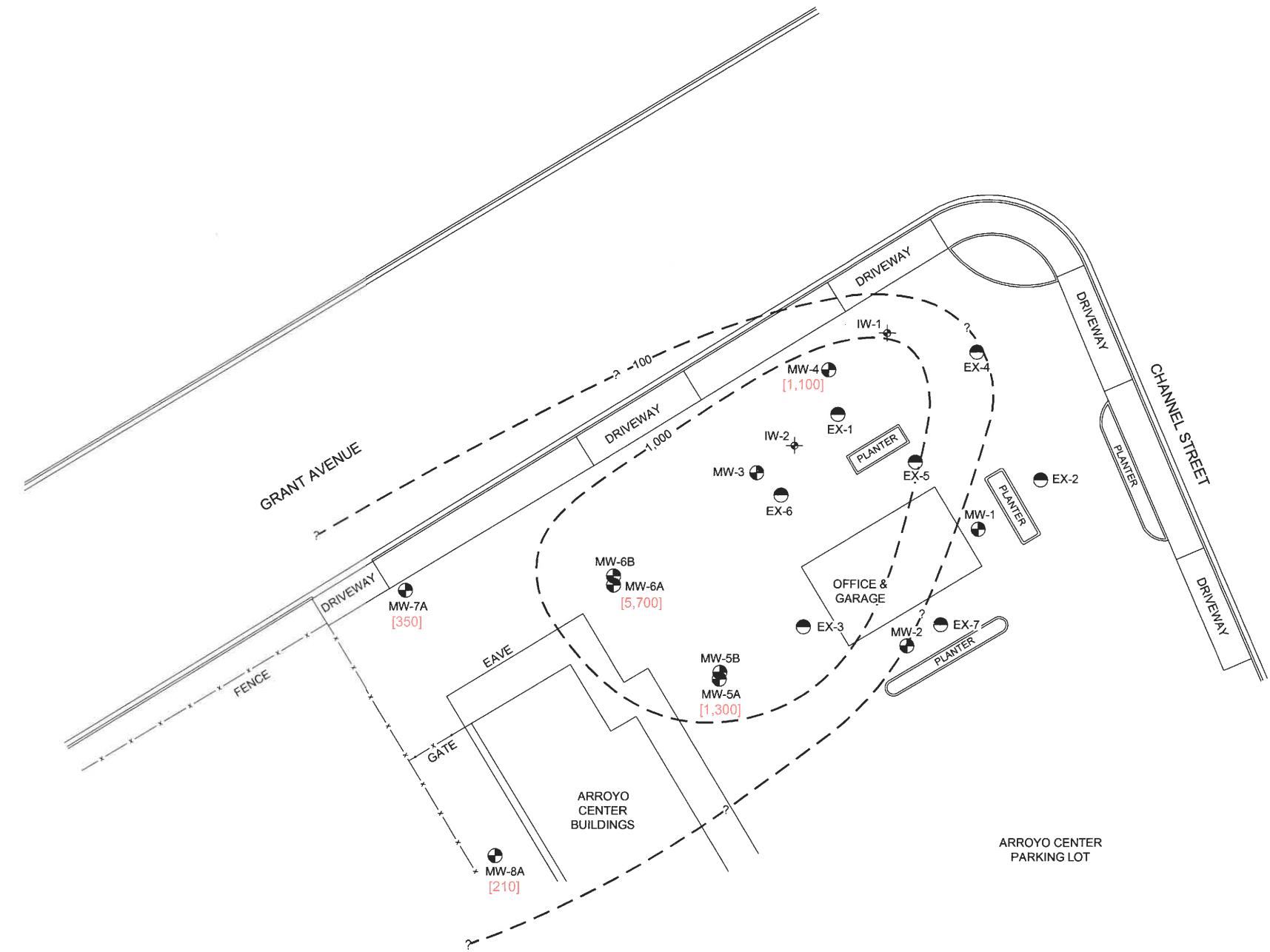


LEGEND

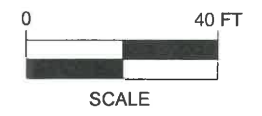
- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION
- [460] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$

GRO ANALYZED BY EPA METHOD SW8015B/SW8260B

NOTE: WELLS MW-4, MW-5A, & MW-6A WERE SAMPLED ON 10/20/15
WELLS MW-7A & MW-8A WERE SAMPLED ON 12/17/15



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FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

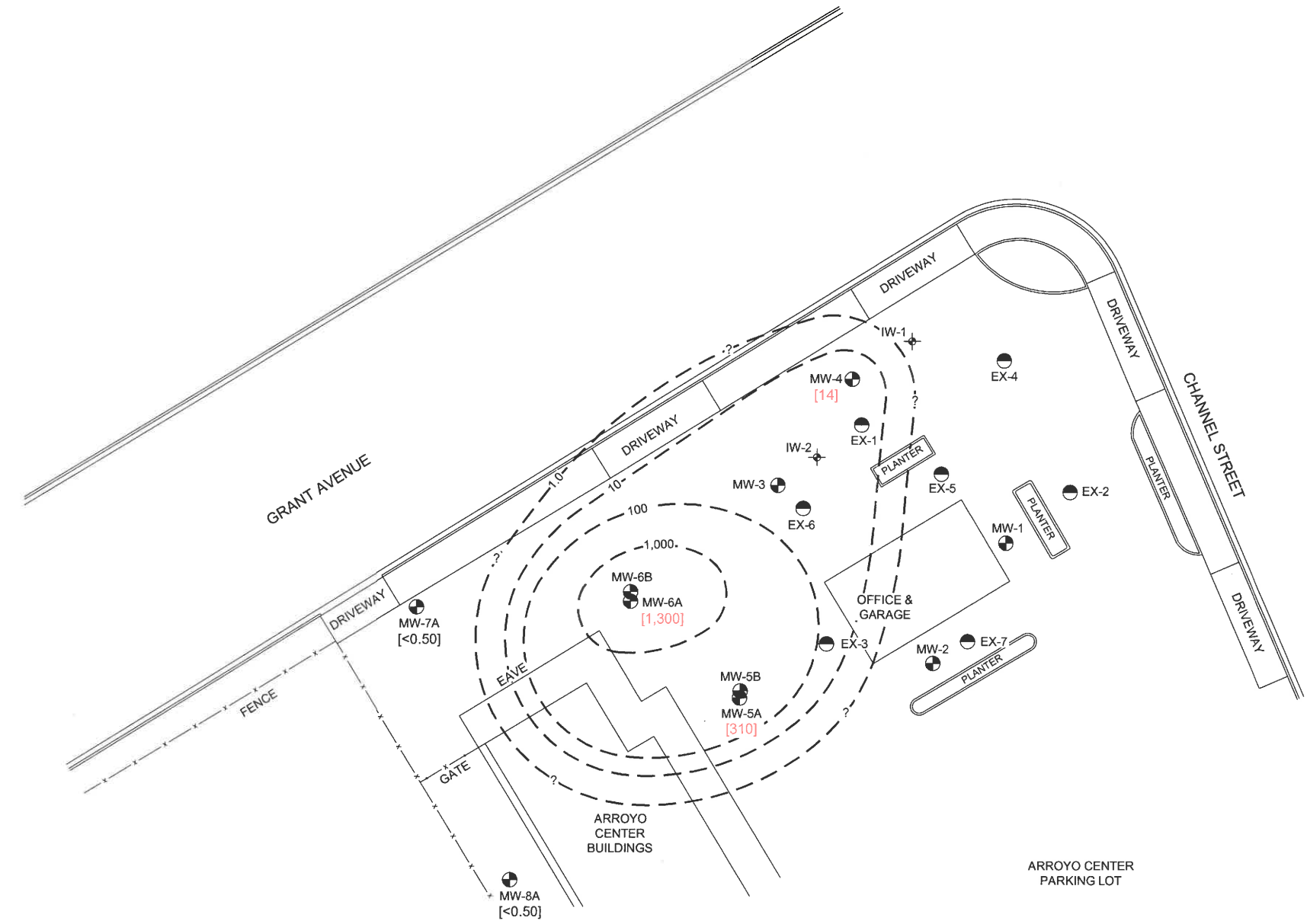
GRO IN GROUNDWATER, 10'-12' DEPTH WELLS
4th QUARTER 2015

FIGURE
4
PROJECT NO.
2115-1436-01

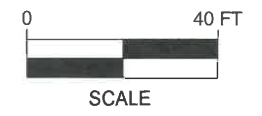


- LEGEND
- MW-1 MONITORING WELL LOCATION
 - EX-1 EXTRACTION WELL LOCATION
 - IW-1 OZONE INJECTION WELL LOCATION
 - [33] BENZENE CONCENTRATION IN $\mu\text{g/L}$

BENZENE ANALYZED BY EPA METHOD SW8260B
NOTE: WELLS MW-4, MW-5A, & MW-6A WERE SAMPLED ON 10/20/15
WELLS MW-7A & MW-8A WERE SAMPLED ON 12/17/15



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FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
BENZENE IN GROUNDWATER, 10'-12' DEPTH WELLS
4th QUARTER 2015

FIGURE
5
PROJECT NO.
2115-1436-01



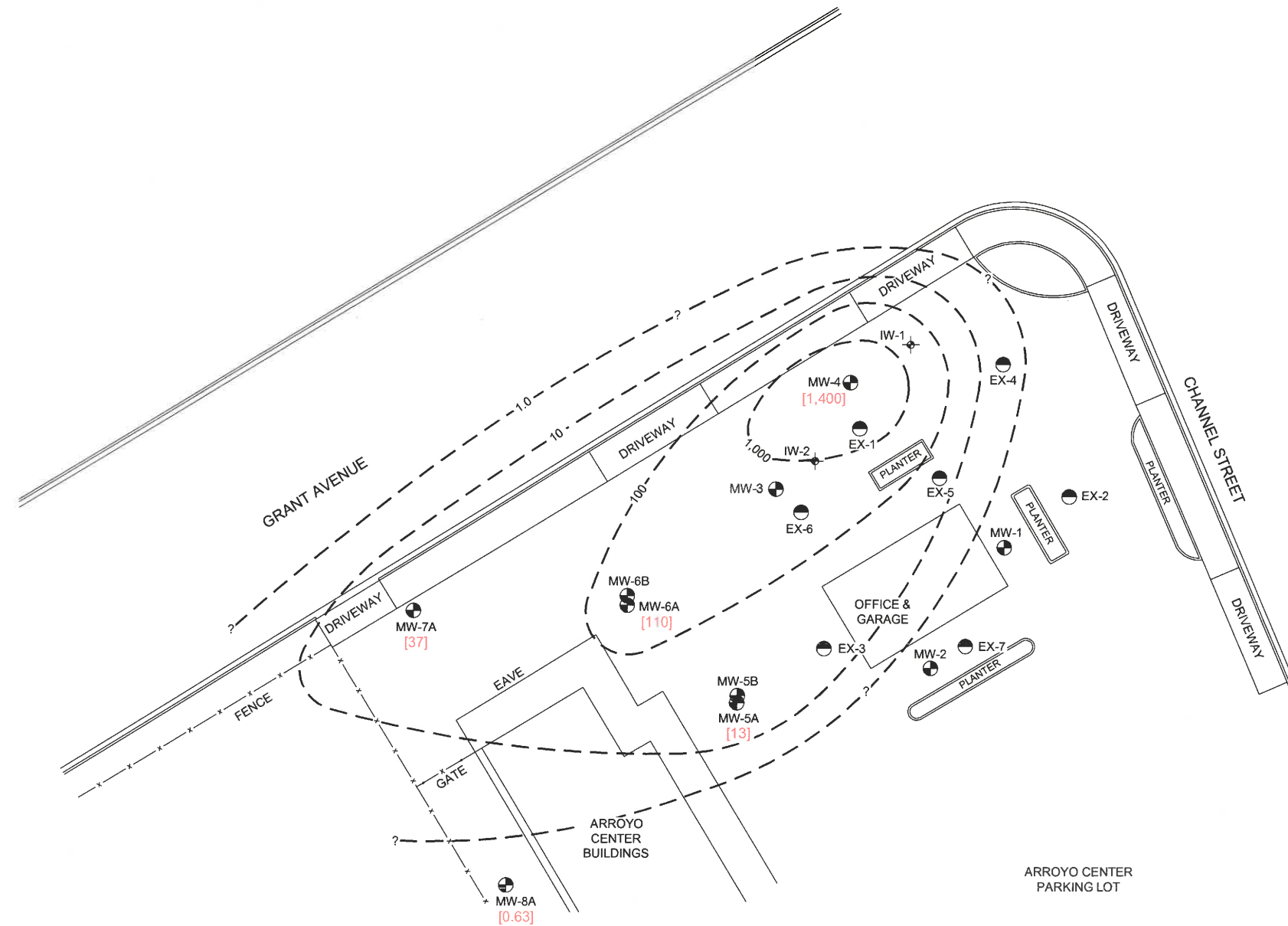
LEGEND

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

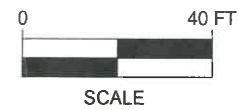
[730] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

MTBE ANALYZED BY EPA METHOD SW8260B

NOTE: WELLS MW-4, MW-5A, & MW-6A WERE SAMPLED ON 10/20/15
WELLS MW-7A & MW-8A WERE SAMPLED ON 12/17/15



STRATUS
ENVIRONMENTAL, INC.



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
MTBE IN GROUNDWATER, 10'-12' DEPTH WELLS
4th QUARTER 2015

FIGURE
6
PROJECT NO.
2115-1436-01



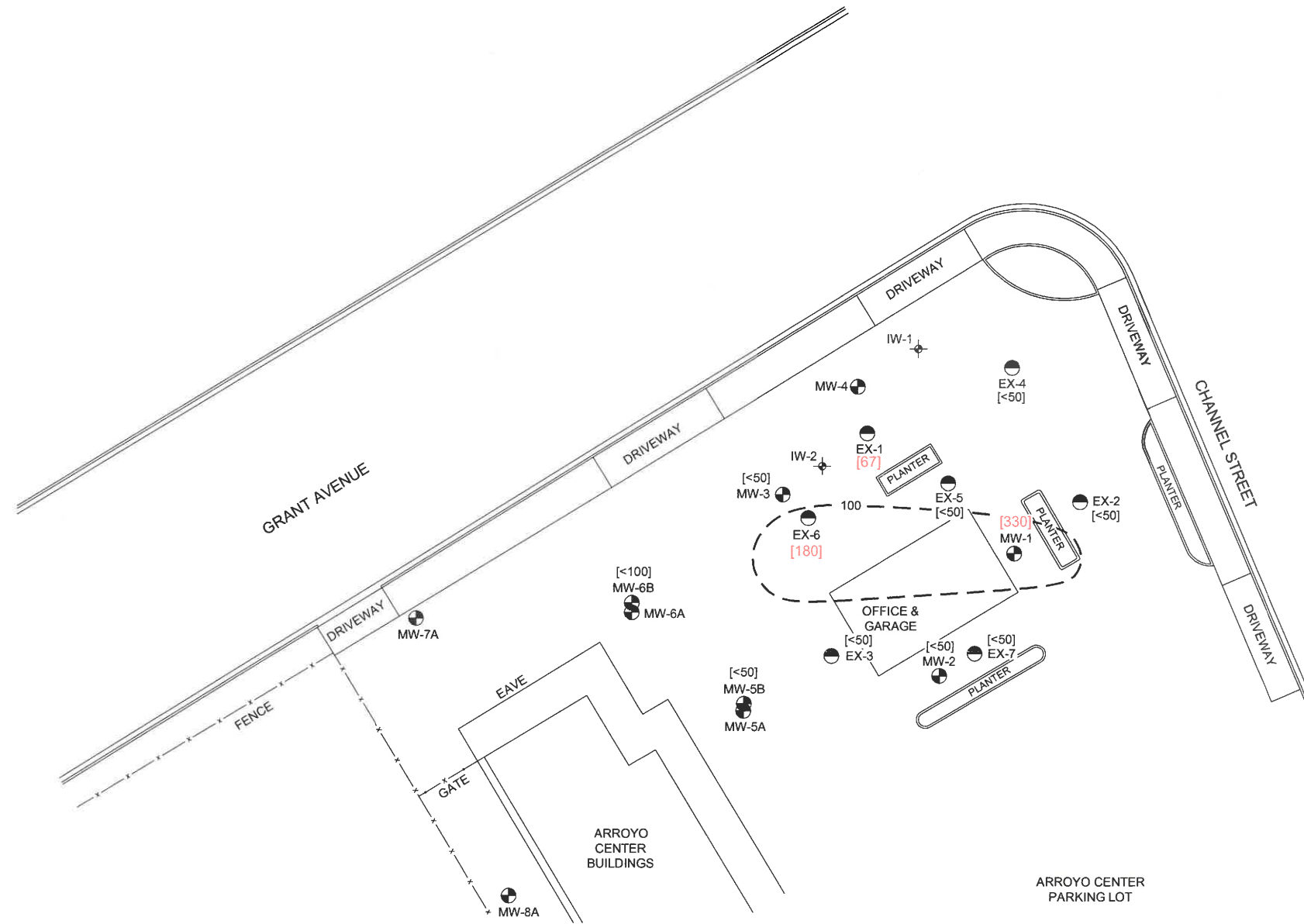
LEGEND

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

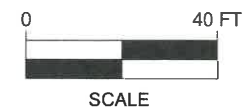
[68] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 10/20/15

GRO ANALYZED BY EPA METHOD SW8015B/SW8260B



STRATUS
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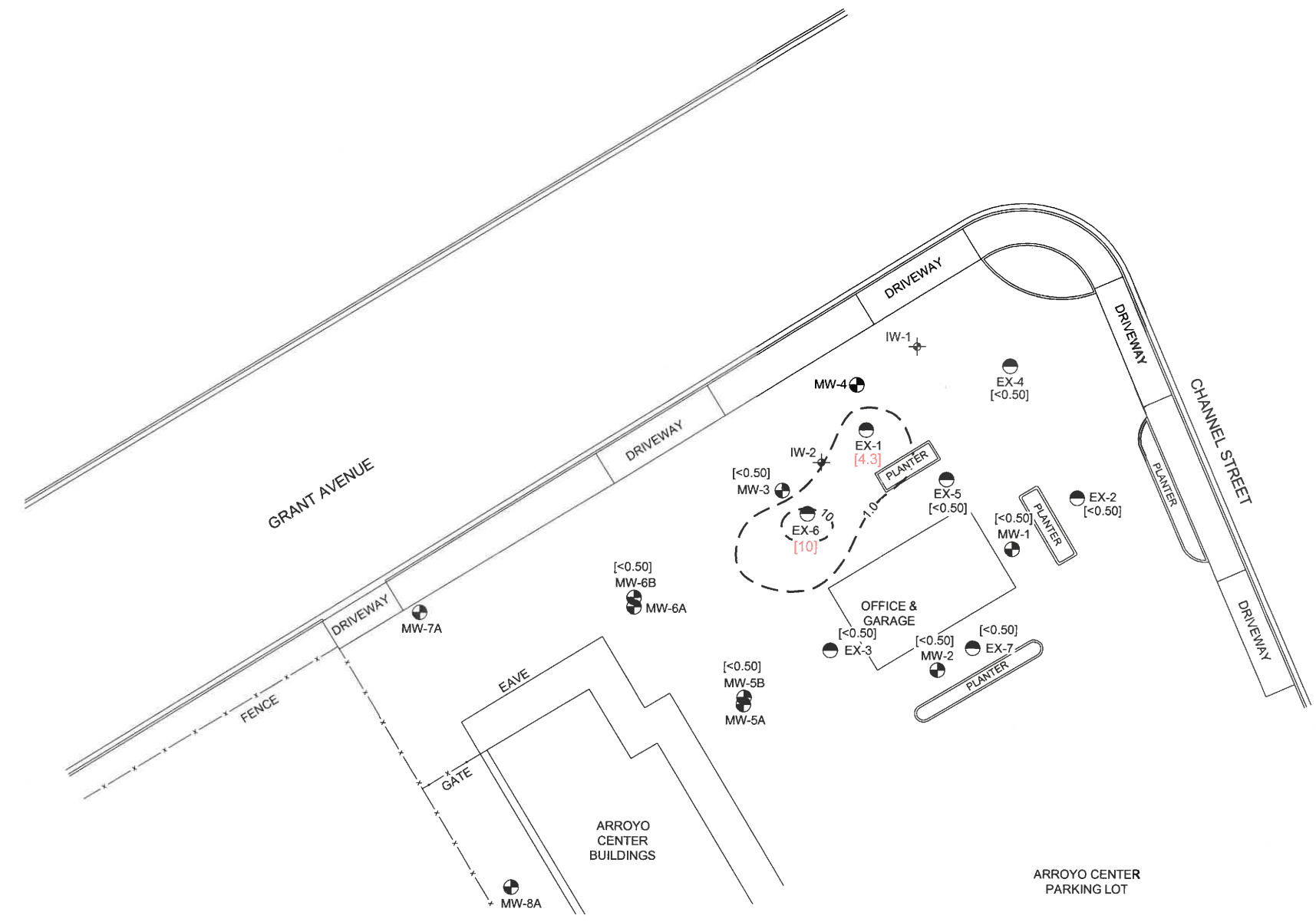


FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
GRO IN GROUNDWATER, 20-26' DEPTH WELLS
4th QUARTER 2015

FIGURE
7
PROJECT NO.
2115-1436-01



LEGEND
● MW-1 MONITORING WELL LOCATION
● EX-1 EXTRACTION WELL LOCATION
⊕ IW-1 OZONE INJECTION WELL LOCATION
[<0.50] BENZENE CONCENTRATION IN µg/L
WELLS SAMPLED ON 10/20/15
BENZENE ANALYZED BY EPA METHOD SW8260B



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
BENZENE IN GROUNDWATER, 20-26' DEPTH WELLS
4th QUARTER 2015

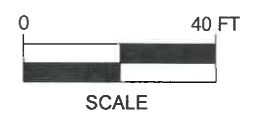
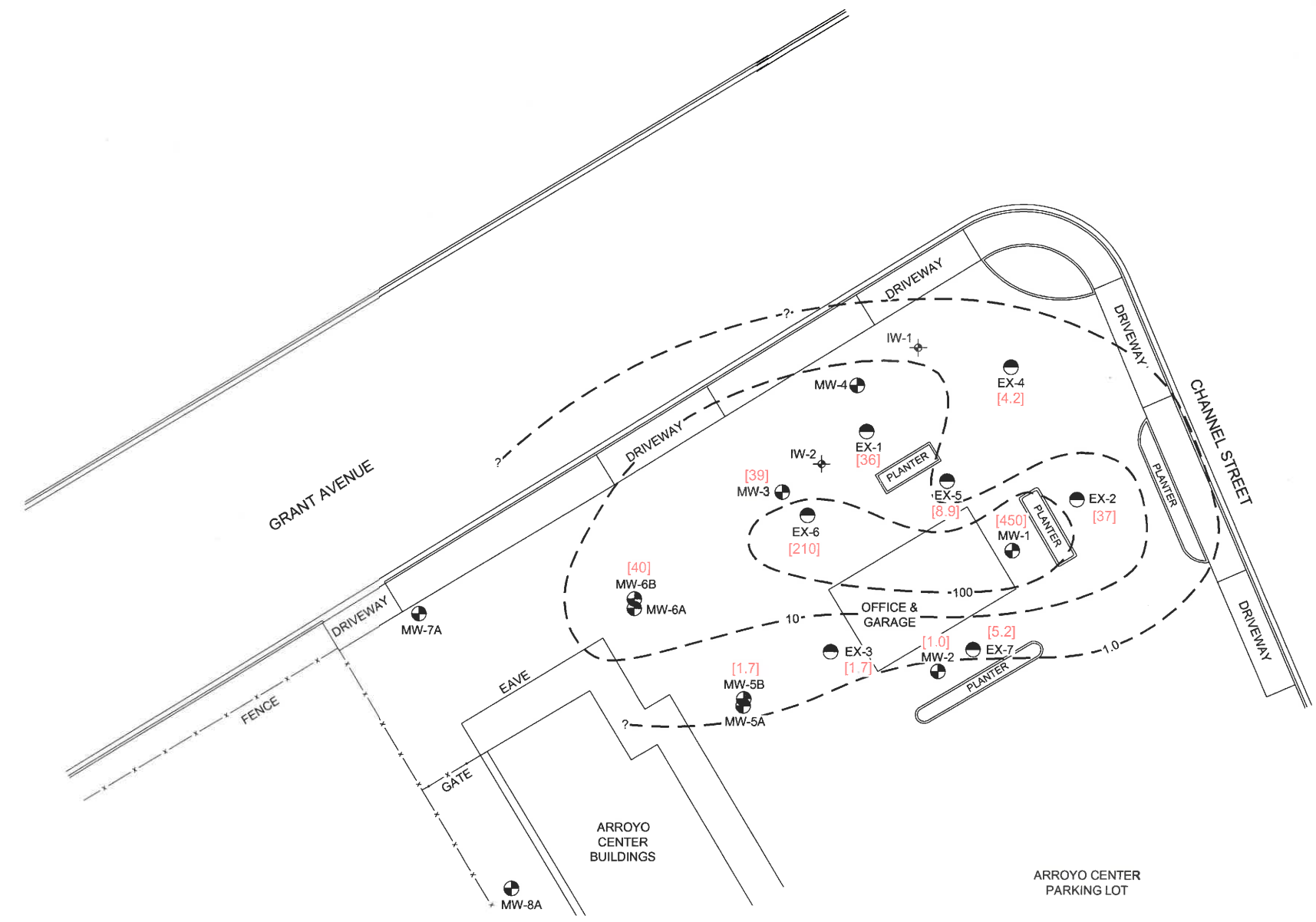
FIGURE
8
PROJECT NO.
2115-1436-01



LEGEND

- ⊕ MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- ⊕ IW-1 OZONE INJECTION WELL LOCATION
- [120] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

WELLS SAMPLED ON 10/20/15
MTBE ANALYZED BY EPA METHOD SW8260B





LEGEND

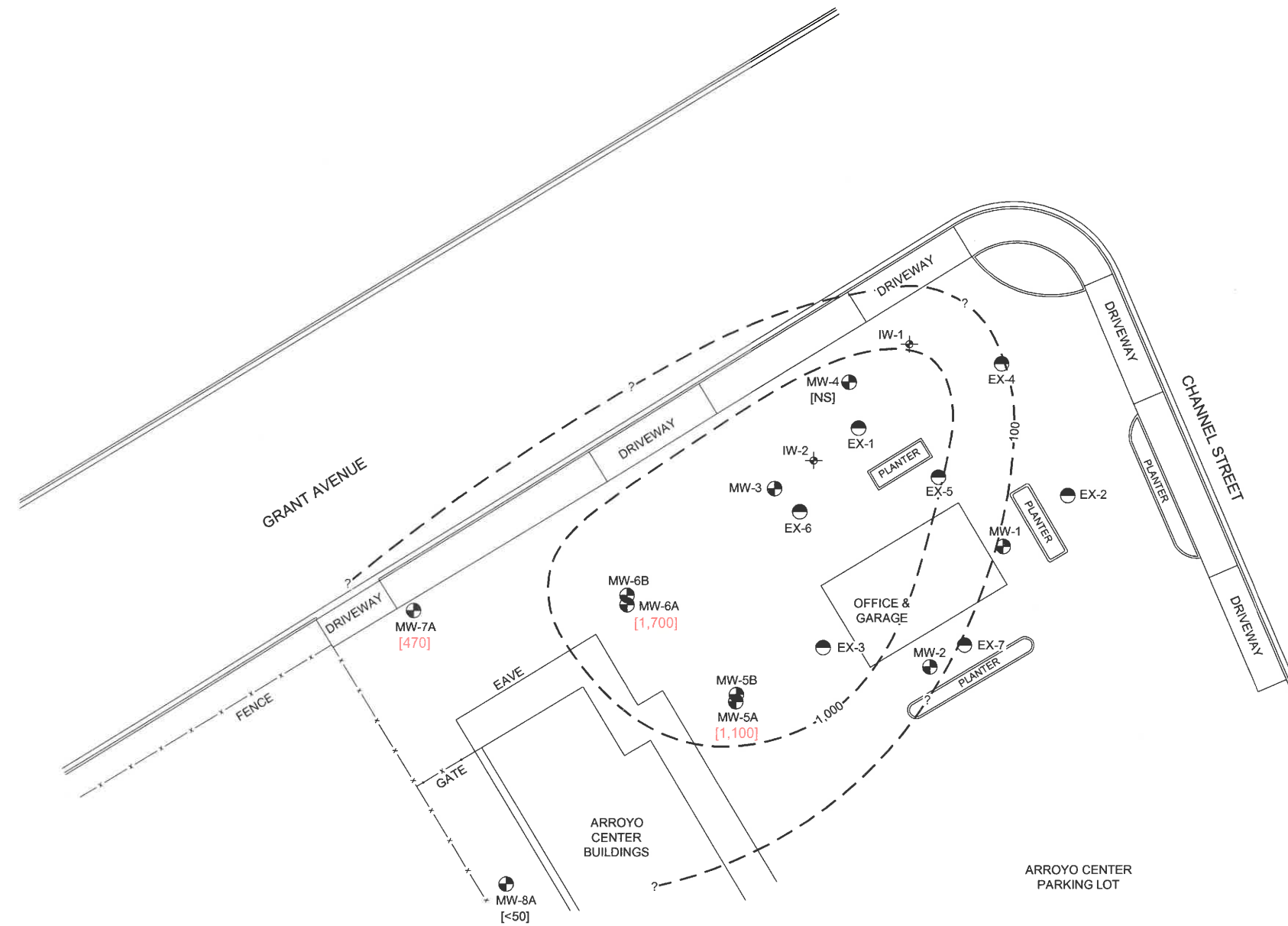
- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- ⊕ IW-1 OZONE INJECTION WELL LOCATION

[460] GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g/L}$

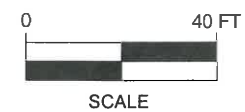
WELLS SAMPLED ON 1/11/16

GRO ANALYZED BY EPA METHOD SW8015B/SW8260B

[NS] = NOT SAMPLED



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FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
GRO IN GROUNDWATER, 10'-12' DEPTH WELLS
1st QUARTER 2016

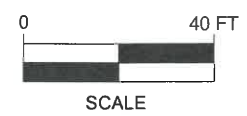
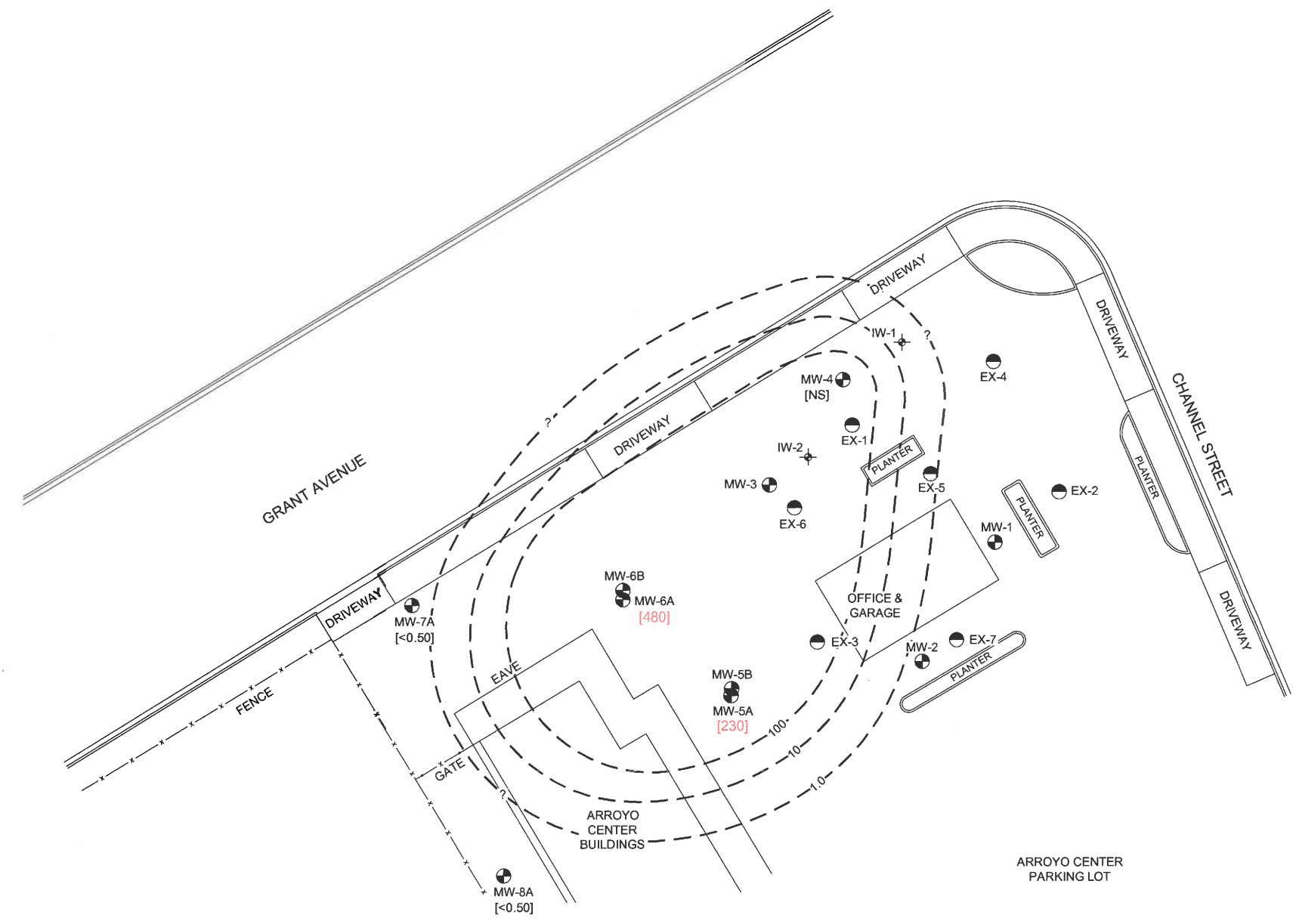
FIGURE
10
PROJECT NO.
2115-1436-01



LEGEND

- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- ⊕ IW-1 OZONE INJECTION WELL LOCATION
- [33] BENZENE CONCENTRATION IN $\mu\text{g/L}$

WELLS SAMPLED ON 1/11/16
BENZENE ANALYZED BY EPA METHOD SW8260B
[NS] = NOT SAMPLED



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

BENZENE IN GROUNDWATER, 10'-12' DEPTH WELLS
1st QUARTER 2016

FIGURE
11
PROJECT NO.
2115-1436-01



LEGEND

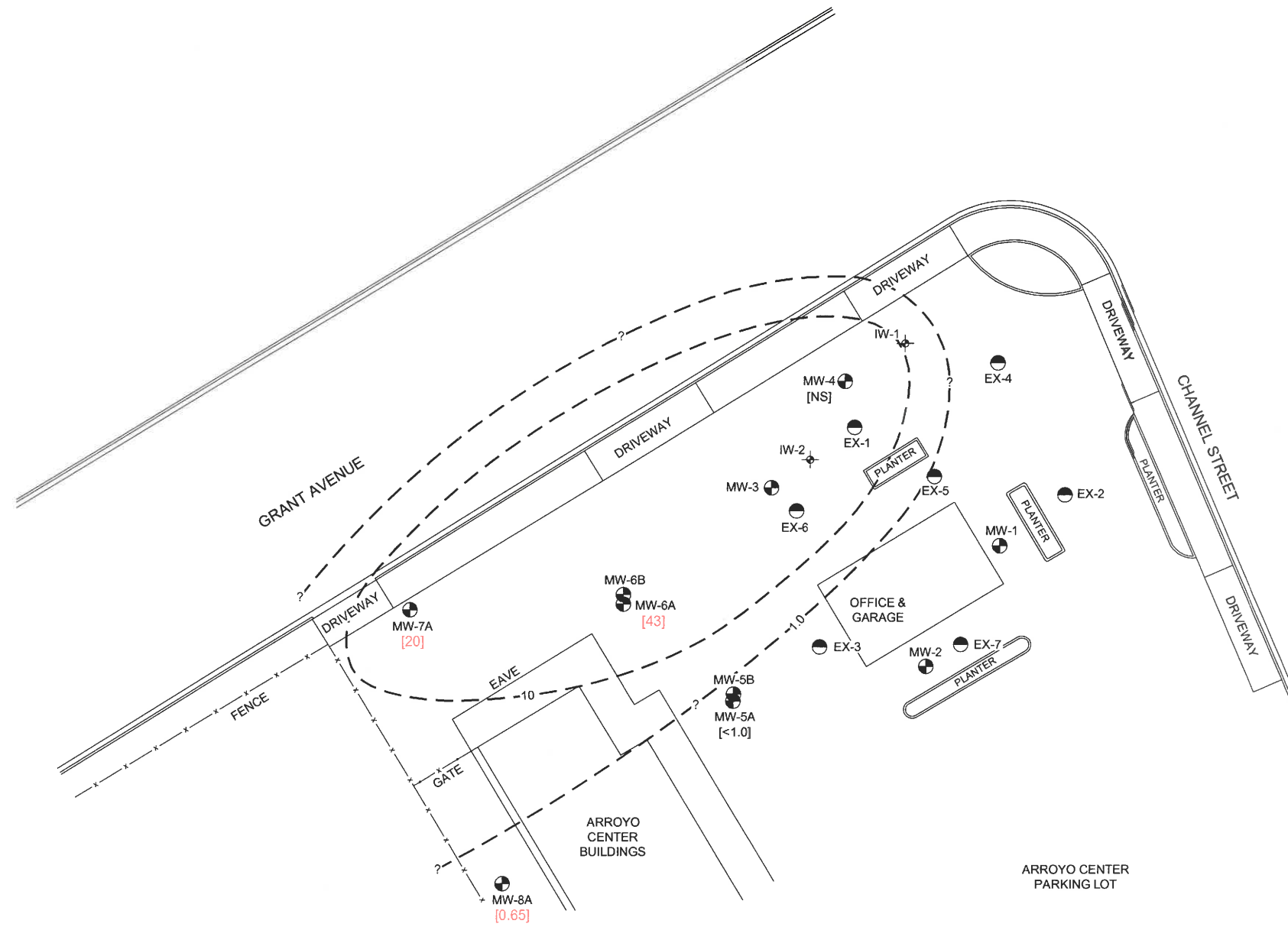
- MW-1 MONITORING WELL LOCATION
- EX-1 EXTRACTION WELL LOCATION
- ⊕ IW-1 OZONE INJECTION WELL LOCATION

[730] METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g/L}$

WELLS SAMPLED ON 1/11/16

MTBE ANALYZED BY EPA METHOD SW8260B

[NS] = NOT SAMPLED



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FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA
MTBE IN GROUNDWATER, 10'-12' DEPTH WELLS
1st QUARTER 2016

FIGURE
12
PROJECT NO.
2115-1436-01



LEGEND

- MW-1 MONITORING WELL LOCATION
- SV-1 SOIL VAPOR PROBE LOCATION
- EX-1 EXTRACTION WELL LOCATION
- IW-1 OZONE INJECTION WELL LOCATION
- B-1 SOIL BORING LOCATION

- 1,000 GASOLINE RANGE ORGANICS (GRO) CONCENTRATION IN $\mu\text{g}/\text{m}^3$
- <28, <3.7 BENZENE CONCENTRATION IN $\mu\text{g}/\text{m}^3$
- <32, <2.0 METHYL TERTIARY BUTYL ETHER (MTBE) IN $\mu\text{g}/\text{m}^3$

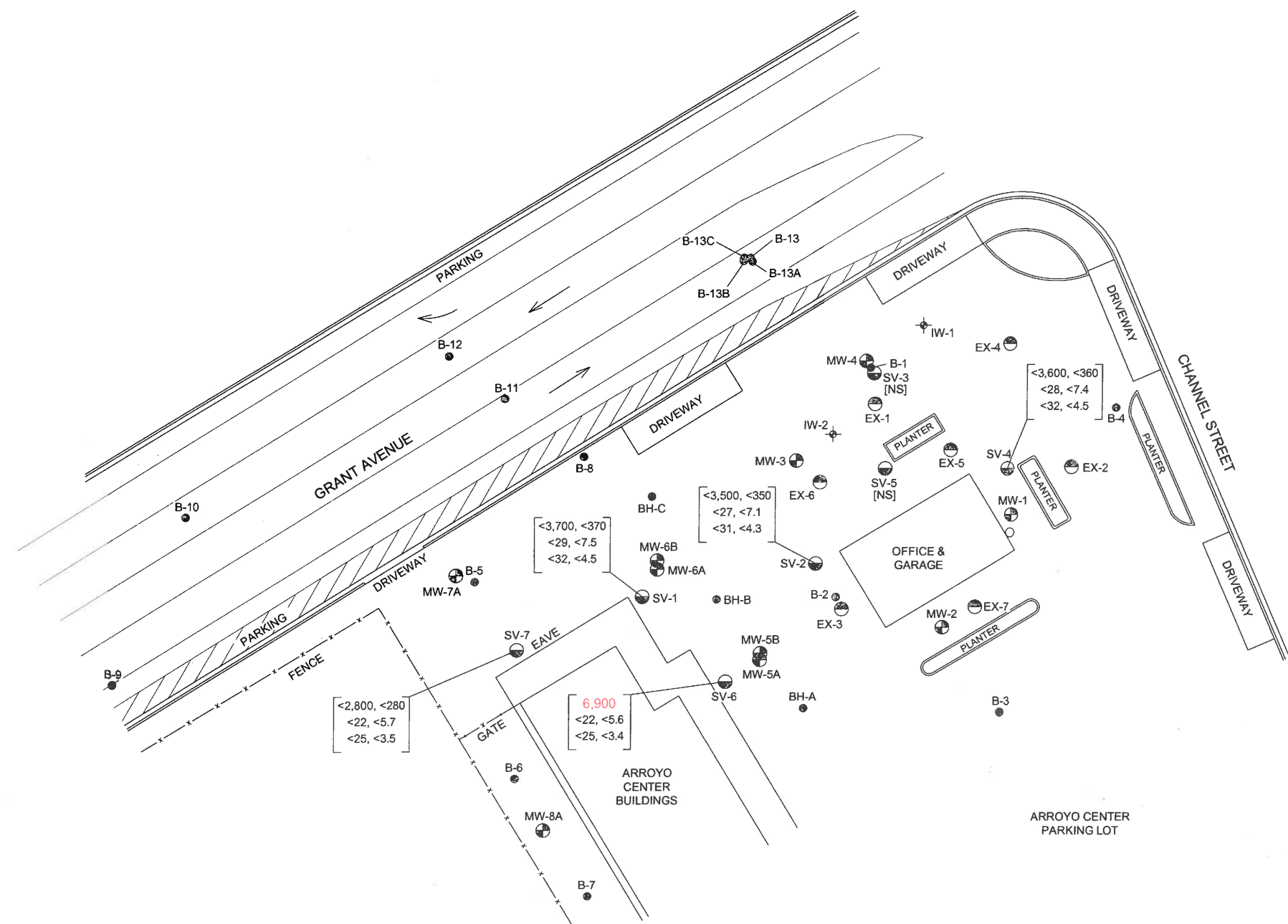
WELLS SAMPLED ON 1/28/16

ANALYSES PERFORMED USING EPA METHOD TO-15

[NS] = NOT SAMPLED DUE TO WATER IN TUBING OF SOIL VAPOR PROBE

NOTE: CONCENTRATIONS REPORTED IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$)

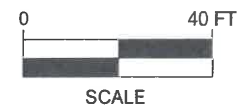
NOTE: NON-DETECTABLE SAMPLE RESULTS ARE ILLUSTRATED TO SHOW THE PRACTICAL QUANTITATION LIMIT (PQL) FOLLOWED BY THE METHOD DETECTION LIMIT (MDL).



BASED ON SURVEY PREPARED BY MORROW SURVEYING ON 6/15/11 & UPDATED IN JUNE 2014 & DECEMBER 2015.

STRATUS
ENVIRONMENTAL, INC.

PATH NAME: Olympic
DRAFTER INITIALS: DMG
DATE LAST REVISED: May 03, 2016
FILENAME: Olympic Soil Vapor Analytical



FORMER OLYMPIC SERVICE STATION
1436 GRANT AVENUE
SAN LORENZO, CALIFORNIA

SOIL VAPOR ANALYTICAL RESULT SUMMARY
1st QUARTER 2016

FIGURE
13
PROJECT NO.
2115-1436-01

APPENDIX A

FIELD PRACTICES AND PROCEDURES

FIELD PRACTICES AND PROCEDURES

General procedures used by Stratus in site assessments for drilling exploratory borings, collecting samples, and installing monitoring wells are described herein. These general procedures are used to provide consistent and reproducible results; however, some procedure may be modified based on site conditions. A California state-registered geologist supervises the following procedures.

PRE-FIELD WORK ACTIVITIES

Health and Safety Plan

Field work performed by Stratus at the site is conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document which describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP is at the site and available for reference by appropriate parties during work at the site.

Locating Underground Utilities

Prior to commencement of any work that is to be below surface grade, the location of the excavation, boring, etc., is marked with white paint as required by law. An underground locating service such as Underground Service Alert (USA) is contacted. The locating company contacts the owners of the various utilities in the vicinity of the site to mark the locations of their underground utilities. Any invasive work is preceded by hand augering to a minimum depth of five feet below surface grade to avoid contact with underground utilities.

FIELD METHODS AND PROCEDURES

Exploratory Soil Borings

Soil borings will be drilled using a truck-mounted, hollow stem auger drill rig. Soil samples for logging will be obtained from auger-return materials and by advancing a modified California split-spoon sampler equipped with brass or stainless steel liners into undisturbed soil beyond the tip of the auger. Soils will be logged by a geologist according to the Unified Soil Classification System and standard geological techniques. Drill cuttings will be screened using a portable photoionization detector (PID) or a flame ionization detector (FID). Exploratory soil borings not used for monitoring well installation will be backfilled to the surface with a bentonite-cement slurry pumped into the boring through a tremie pipe.

Soil sampling equipment will be cleaned with a detergent water solution, rinsed with clean water, and equipped with clean liners between sampling intervals. Augers and samplers will be steam cleaned between each boring to reduce the possibility of cross contamination. Steam cleaning effluent will be contained in 55-gallon drums and

temporarily stored on site. The disposal of the effluent will be the responsibility of the client, unless authorized by the client for disposal by Stratus.

Drill cuttings generated during the drilling procedure will be stockpiled on site or contained in labeled and sealed 55-gallon drums. Stockpiled drill cuttings will be placed on and covered with plastic sheeting. The stockpiled soil is typically characterized by collecting and analyzing composite samples from the stockpile. Stratus Environmental will recommend an appropriate method for disposition of the cuttings based on the analytical results. The client will be responsible for disposal of the drill cuttings.

Soil Sample Collection

During drilling, soil samples will be collected in cleaned brass, two by six inch tubes. The tubes will be set in an 18-inch-long split-barrel sampler. The sampler will be conveyed to bottom of the borehole attached to a wire-line hammer device on the drill rig. When possible, the split-barrel sampler will be driven its entire length, either hydraulically or by repeated pounding a 140-pound hammer using a 30-inch drop. The number of drops (blows) used to drive the sampler will be recorded on the boring log. The sampler will be extracted from the borehole, and the tubes containing the soil samples will be removed. Upon removal, the ends of the lowermost tube will be sealed with Teflon sheets and plastic caps. Soil samples for chemical analysis will be labeled, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation.

Soil Classification

As the samples are obtained in the field, they will be classified by the field geologist in accordance with the Unified Soil Classification System. Representative portions of the samples will be retained for further examination and for verification of the field classification. Logs of the borings indicating the depth and identification of the various strata and pertinent information regarding the method of maintaining and advancing the borehole will be prepared.

Soil Sample Screening

Soil samples selected for chemical analysis will be determined from a head-space analysis using a PID or an FID. The soil will be placed in a resealable plastic bag, sealed, and allowed to reach ambient temperature, at which time the PID probe will be inserted into the resealable plastic bag. The total volatile hydrocarbons present are detected by the PID and reported in parts per million by volume (ppmv). The PID will be calibrated to an isobutylene standard.

Generally two soil samples from each soil boring will be submitted for chemical analysis unless otherwise specified in the scope of work. Soil samples selected for analysis typically represent the highest PID reading recorded for each soil boring and the sample just above first-encountered groundwater.

Drill Cuttings and Soil Sampling

Soil generated during drilling operations will be stockpiled on-site or contained in labeled and sealed 55-gallon drums. The stockpile will be set on and covered by plastic sheeting in a manner to prevent rain water from coming in contact with the soil. Prior to collecting soil samples, Stratus personnel will calculate the approximate volume of soil in the stockpile. The stockpile will then be divided into sections, if warranted, containing the predetermined volume sampling interval. Soil samples will be collected at 0.5 to 2 feet below the surface of the stockpile. Four soil samples will be collected from the stockpile and composited into one sample by the laboratory prior to analysis. The soil samples will be collected in cleaned brass, two by six inch tubes using a hand driven sampling device. To reduce the potential for cross-contamination between samples, the sampler will be cleaned between each sampling event. Upon recovery, the sample container will be sealed at each end with Teflon sheeting and plastic caps to minimize the potential of volatilization and cross-contamination prior to chemical analysis. The soil sample will be labeled, placed on ice, and delivered to a state-certified analytical laboratory, along with the appropriate chain-of-custody documentation.

Direct-Push Technology, Soil Sampling

Direct-push is a drilling method of advancing small diameter borings without generating soil cuttings. The system consists of an approximately 2-inch diameter, 4- or 5-foot long, stainless steel soil sampling tool that is hydraulically advanced into subsurface soils by a small rig. The sampling tool is designed similar to a California-modified split-spoon sampler, and lined with a sample tube that enables continuous core sampling.

To collect soil samples, the sampler is advanced to the desired sampling depth. The mouth of the sampling tool is plugged to prevent soil from entering the sampler. Upon reaching the desired sampling depth, the plug at the mouth of the sample tool is disengaged and retracted, the sampler is advanced, and the sampler is filled with soil. The sample tool is then retrieved from the boring, and the sample tube removed. The sample tool is then cleaned, a new tube is placed inside and the sampling equipment is advanced back down the borehole to the next sample interval.

The Stratus geologist describes the entire interval of soil in the tube. The bottom-most 6-inch long section is cut off and retained for possible chemical analysis. The ends of the chemical sample are lined with Teflon sheets, capped, labeled, and placed in an ice-chilled cooler for transport to California Department of Health Services-certified analytical laboratory under chain-of-custody.

Direct Push Technology, Water Sampling

A well known example of direct push technology for water sampling is the Hydropunch. For the purpose of this field method the term hydropunch will be used instead of direct push technology for water sampling.

The hydropunch is typically used with a drill rig. A boring is drilled with hollow stem-augers to just above the sampling zone. In some soil conditions the drill rig can push directly from the surface to the sampling interval. The hydropunch is conveyed to the bottom of the boring using drill rods. Once on bottom the hydropunch is driven a maximum of five feet. The tool is then opened by lifting up the drill rod no more than four feet. Once the tool is opened, water enters and a sample can be collected with a bailer or tubing utilizing a peristaltic pump. Soil particles larger than silt are prevented from entering the tool by a screen within the tool. The water sample is collected, labeled, and handled according to the Quality Assurance Plan.

Monitoring Well Installation

Monitoring wells will be completed by installing 2 to 6 inch-diameter Schedule 40 polyvinyl chloride (PVC) casing. The borehole diameter for a monitoring well will be greater than four inches larger than the outside diameter of the casing. The 2-inch-diameter flush-threaded casing is generally used for wells dedicated for groundwater monitoring purposes.

A monitoring well is typically cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally with 0.01 or 0.02 inch-wide by 1.5-inch-long slots, with 42 slots per foot. The screened sections of casing are factory machine slotted and will generally be installed approximately 5 feet above and 10 feet below first-encountered water level. The screened interval will allow for seasonal fluctuation in water level and for monitoring floating product. A threaded or slip PVC cap is secured to the bottom of the casing. The slip cap can be secured with stainless steel screws or friction; no solvents or cements are used. Centering devices may be fastened to the casing to ensure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and/or steam cleaned, or may be purchased as pre-cleaned, prior to completion.

A filter pack of graded sand will be placed in the annular space between the PVC casing and the borehole wall. Sand will be added to the borehole through the hollow stem of the augers to provide a uniform filter pack around the casing and to stabilize the borehole. Generally the sand pack will be placed to a maximum of 2 feet above the screens, followed by a minimum 1- to 2-foot seal consisting of bentonite pellets.

Cement grout containing a maximum of 5 percent bentonite powder will be placed above the bentonite seal to the ground surface. A concrete traffic-rated vault box will be installed over the monitoring well(s). A watertight locking cap will be installed in the top of the well casing. Reference elevations for each monitoring well will be surveyed when more than two wells will be located on site. Monitoring well elevations will be surveyed by a California licensed surveyor to the nearest 0.01-foot relative to mean sea level (MSL). Horizontal coordinates of the wells will be measured at the same time. Exploratory boring logs and well construction details will be prepared for the final written report.

APPENDIX B

**SOIL BORING LOGS, SOIL VAPOR POINT
CONSTRUCTION DETAILS, AND DRILLING PERMIT**

SOIL BORING LOG

Boring No. MW-7A

Sheet: 1 of 1

Client	Olympic Gas	Date	December 4, 2015
Address	1436 Grant Street San Lorenzo, California	Drilling Co.	Penecore Drilling rig type: GP 7822DT
Project No.	2115-1436-01	Driller	
Logged By:	Allan Dudding	Method	Direct push/HSA Hole Diameter: 8 inches
		Sampler:	5-foot long x 1.5-inch diameter sample liners
Well Pack	sand: 3 ft. to 12 ft. bent.: 2 ft. to 3 ft. grout: 1 ft. to 2 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 4 to 12 feet bgs Casing Diameter: 2 inches Screen Slot Size: 0.020 inches Depth to GW: ▽ first encountered: ▽ Static:

Sample		Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
Type	No.		Time	Recov.					
								Boring hand cleared to 5 feet bgs. Asphalt at surface.	
							CL	Silty Clay, CL, olive brown (2.5Y 4/3), moist, medium plasticity, 70% clay, 30% silt.	
								As above, trace fine sand.	
								As above, color changes to dark gray (GLE Y1 4/N)	

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.



SOIL BORING LOG

Boring No. MW-8A

Sheet: 1 of 1

Client	Olympic Gas	Date	December 4, 2015
Address	1436 Grant Street San Lorenzo, California	Drilling Co.	Penecore Drilling rig type: GP 7822DT
Project No.	2115-1436-01	Driller	
Logged By:	Allan Dudding	Method	Direct push/HSA Hole Diameter: 8 inches
		Sampler:	5-foot long x 1.5-inch diameter sample liners
Well Pack	sand: 3 ft. to 12 ft. bent.: 2 ft. to 3 ft. grout: 1 ft. to 2 ft.	Well Construction	Casing Material: Schedule 40 PVC Screen Interval: 4 to 12 feet bgs Casing Diameter: 2 inches Screen Slot Size: 0.020 inches Depth to GW: ▽ first encountered: ▽ Static:

Sample Type	Sample No.	Blow Count	Sample		Well Details	Depth Scale	Lithologic Column	Descriptions of Materials and Conditions	PID (PPM)
			Time	Recov.					
						1		Boring hand cleared to 5 feet bgs. Asphalt at surface.	
						2	CL	Silty Clay, CL, olive brown (2.5Y 4/3), moist, medium plasticity, 70% clay, 30% silt.	
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11		As above, trace fine sand.	
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			

Recovery Sample

Comments: Color descriptions from Munsell Color Chart.

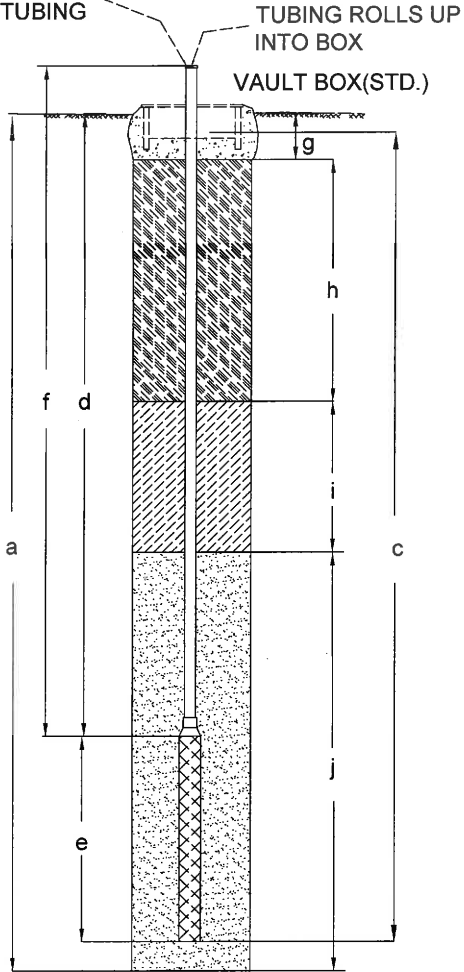


SOIL VAPOR PROBE CONSTRUCTION DETAIL

PROJECT NUMBER 2115-1436-01
 PROJECT NAME Former Olympic Service Station
 LOCATION 1436 Grant Ave, San Lorenzo, CA

VAPOR PROBE NO. SV-6
 PERMIT NO. _____
 INSTALLATION DATE December 04, 2015

SWAGELOK VALVE
 INSTALLED ON
 TOP OF TUBING



- | | |
|-----------|--------------|
| BENTONITE | CONCRETE |
| GROUT | SAND |
| | MESH IMPLANT |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 6 ft.
 b. DIAMETER 2.5 in.
 DRILLING METHOD Hand Tools

PROBE CONSTRUCTION

c. TOTAL PROBE DEPTH 5.5 ft.
 PROBE SCREEN MATERIAL Stainless Steel Mesh
 d. DEPTH TO TOP PERFORATIONS 5.3 ft.
 e. SCREENED
 INTERVAL FROM 5.3 TO 5.5 ft.
 f. LENGTH OF TUBING 7 ft.
 TUBING CONNECTED TO
 PROBE 5.3 ft.
 TUBING DIAMETER 0.25 in.
 TUBING MATERIAL Teflon
 g. SURFACE SEAL 0 to 0.5 ft.
 SEAL MATERIAL Concrete
 h. BACKFILL 0.5 to 1 ft.
 BACKFILL MATERIAL Cement Grout
 i. SEAL 1 to 5 ft.
 SEAL MATERIAL Bentonite
 j. FILTER PACK 5 to 6 ft.
 FILTER PACK MATERIAL #3 Sand

SOIL VAPOR PROBE CONSTRUCTION DETAIL

PROJECT NUMBER 2115-1436-01

VAPOR PROBE NO. SV-7

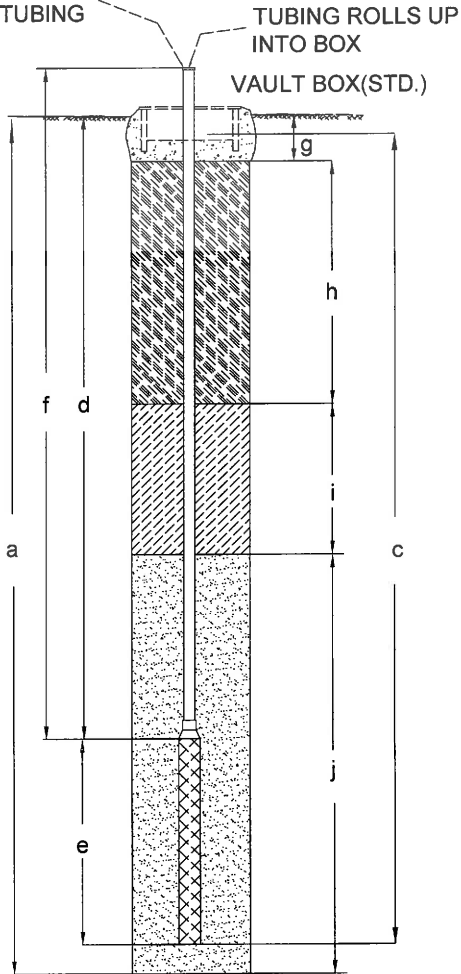
PROJECT NAME Former Olympic Service Station

PERMIT NO. _____

LOCATION 1436 Grant Ave, San Lorenzo, CA

INSTALLATION DATE December 04, 2015

SWAGELOK VALVE
INSTALLED ON
TOP OF TUBING



- | | |
|-----------|--------------|
| BENTONITE | CONCRETE |
| GROUT | SAND |
| | MESH IMPLANT |

NOT TO SCALE

EXPLORATORY BORING

a. TOTAL DEPTH 6 ft.

b. DIAMETER 2.5 in.

DRILLING METHOD Hand Tools

PROBE CONSTRUCTION

c. TOTAL PROBE DEPTH 5.5 ft.

PROBE SCREEN MATERIAL Stainless Steel Mesh

d. DEPTH TO TOP PERFORATIONS 5.3 ft.

e. SCREENED

INTERVAL FROM 5.3 TO 5.5 ft.

f. LENGTH OF TUBING 7 ft.

TUBING CONNECTED TO

PROBE 5.3 ft.

TUBING DIAMETER 0.25 in.

TUBING MATERIAL Teflon

g. SURFACE SEAL 0 to 0.5 ft.

SEAL MATERIAL Concrete

h. BACKFILL 0.5 to 1 ft.

BACKFILL MATERIAL Cement Grout

i. SEAL 1 to 5 ft.

SEAL MATERIAL Bentonite

j. FILTER PACK 5 to 6 ft.

FILTER PACK MATERIAL #3 Sand

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/24/2015 By jamesy

Permit Numbers: W2015-1039 to W2015-1041
Permits Valid from 12/02/2015 to 12/04/2015

Application Id: 1447797681313
Site Location: 1436 Grant Avenue, San Lorenzo, CA
Project Start Date: 12/02/2015
Assigned Inspector: Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com

City of Project Site:San Lorenzo

Completion Date:12/04/2015

Applicant: STRATUS - Scott Bittinger
3330 Cameron Park Dr #550, Cameron Park, CA 95682

Phone: 530-676-2062

Property Owner: Jaber Fam Trst.
2801 Encinal Ave, Alameda, CA 94501

Phone: 510-523-4929

Client: ** same as Property Owner **

	Total Due:	\$1059.00
Receipt Number: WR2015-0568	Total Amount Paid:	\$1059.00
Payer Name : Stratus	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells
Driller: Penecore - Lic #: 906899 - Method: Hand

Work Total: \$794.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2015-1039	11/24/2015	03/01/2016	MW7A	8.00 in.	2.00 in.	4.00 ft	12.00 ft
W2015-1040	11/24/2015	03/01/2016	MW8A	8.00 in.	2.00 in.	4.00 ft	12.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755

Alameda County Public Works Agency - Water Resources Well Permit

(Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.
6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
8. Minimum surface seal thickness is two inches of cement grout placed by tremie.
9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
11. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

Well Destruction-Vapor monitoring well - 2 Wells

Driller: Penecore - Lic #: 906899 - Method: Hand

Work Total: \$265.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2015-1041	11/24/2015	03/01/2016	SV6	4.00 in.	0.25 in.	2.00 ft	5.00 ft			
W2015-1041	11/24/2015	03/01/2016	SV7	4.00 in.	0.25 in.	2.00 ft	6.00 ft			

Specific Work Permit Conditions

1. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.
2. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
3. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters

Alameda County Public Works Agency - Water Resources Well Permit

generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Remove the Christy box or similar structure. Overdrill or clean out to original depth. After the seal has set, backfill the remaining hole with concrete or compacted material to match existing.

8. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

9. Vapor monitoring wells constructed with tubing shall be decommissioned by complete removal of tubing, grout seal, and fill material of sand or bentonite. Fill material may be removed by hand auger if material can be removed completely.

Vapor monitoring wells constructed with pvc pipe less than 2" shall be overdrilled to total depth.

Vapor monitoring wells constructed with 2" pvc pipe or larger may be grouted by tremie pipe (any depth) or pressure grouted (less than 30', 25 psi for 5 min).

APPENDIX C

FIELD DATA SHEETS AND SCHEMATIC DIAGRAM OF SOIL VAPOR SAMPLING EQUIPMENT



Site Address 1436 Grant Ave
 City San Lorenzo
 Sampled by: _____
 Signature _____

Site Number Olympic Station
 Project Number _____
 Project PM Scott
 DATE 12 9 15

Development

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	10 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 7A	0428		9.09	11.95	2.86	2	.16	5	2.00		X						
MW 8A	0438		8.51	12.00	3.69	2	.16	6	2.00		X						
MW 7A		Well Box good				Well Bails											
MW 8A		Well Box good				Well Bails											
<i>Surge wells with Bailer</i>																	

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 _____
 Conductivity _____
 DO _____



Site Address 1436 Corn Y
 City Siam Linn
 Sampled By: _____
 Signature [Signature]

ORIGINAL

Site Number Olympic
 Project Number 3604
 Project PM _____
 DATE 12-17-09

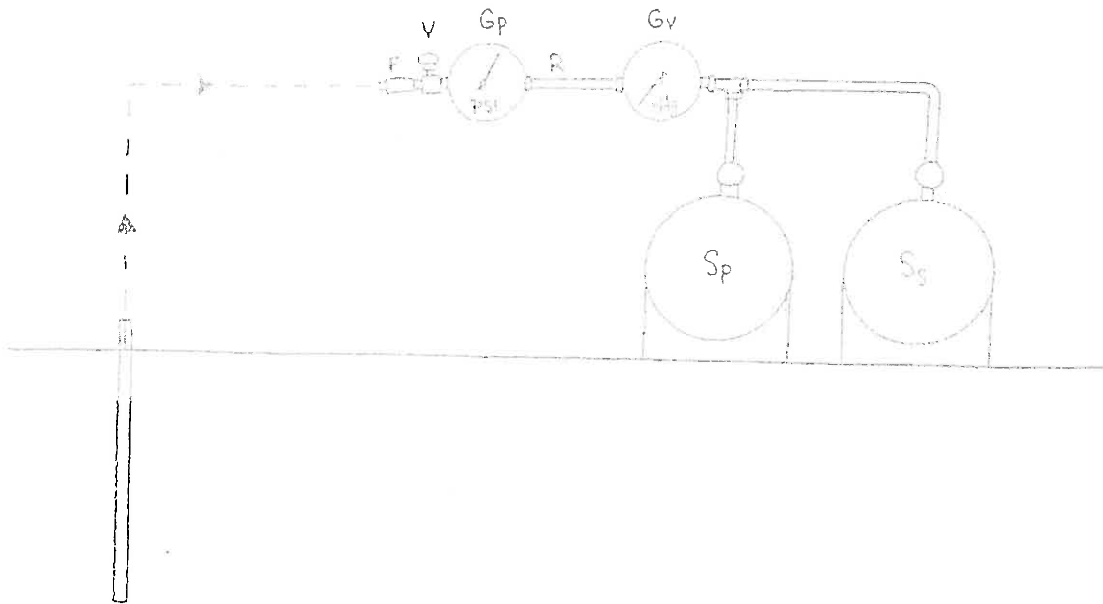
Well ID <u>MW 7A</u>					Well ID <u>MW 8A</u>				
Purge start time					Purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time <u>0415</u>	<u>19.4</u>	<u>7.73</u>	<u>483.7</u>	<u>2</u>	time <u>0425</u>	<u>20.4</u>	<u>7.41</u>	<u>466.7</u>	<u>2</u>
time <u>0417</u>	<u>20.8</u>	<u>7.64</u>	<u>480.5</u>	<u>2</u>	time <u>0427</u>	<u>21.1</u>	<u>7.38</u>	<u>463.1</u>	<u>2</u>
time					time				
time					time				
purge stop time					purge stop time				
ORP <u>-69.4</u>					ORP <u>-50.4</u>				
Well ID					Well ID				
Purge start time					Purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
ORP					ORP				
Well ID					Well ID				
Purge start time					Purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
ORP					ORP				
Well ID					Well ID				
Purge start time					Purge start time				
	Temp C	pH	cond	gallons		Temp C	pH	cond	gallons
time					time				
time					time				
time					time				
time					time				
purge stop time					purge stop time				
ORP					ORP				

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Schematic of Soil Gas Sampling Manifold

- F = Filter
- V = Valve
- Gp = Pressure Gauge
- R = Flow Regulator
- Gv = Vacuum Gauge
- Sp = Purge Summa Canister
- Ss = Sample Summa Canister

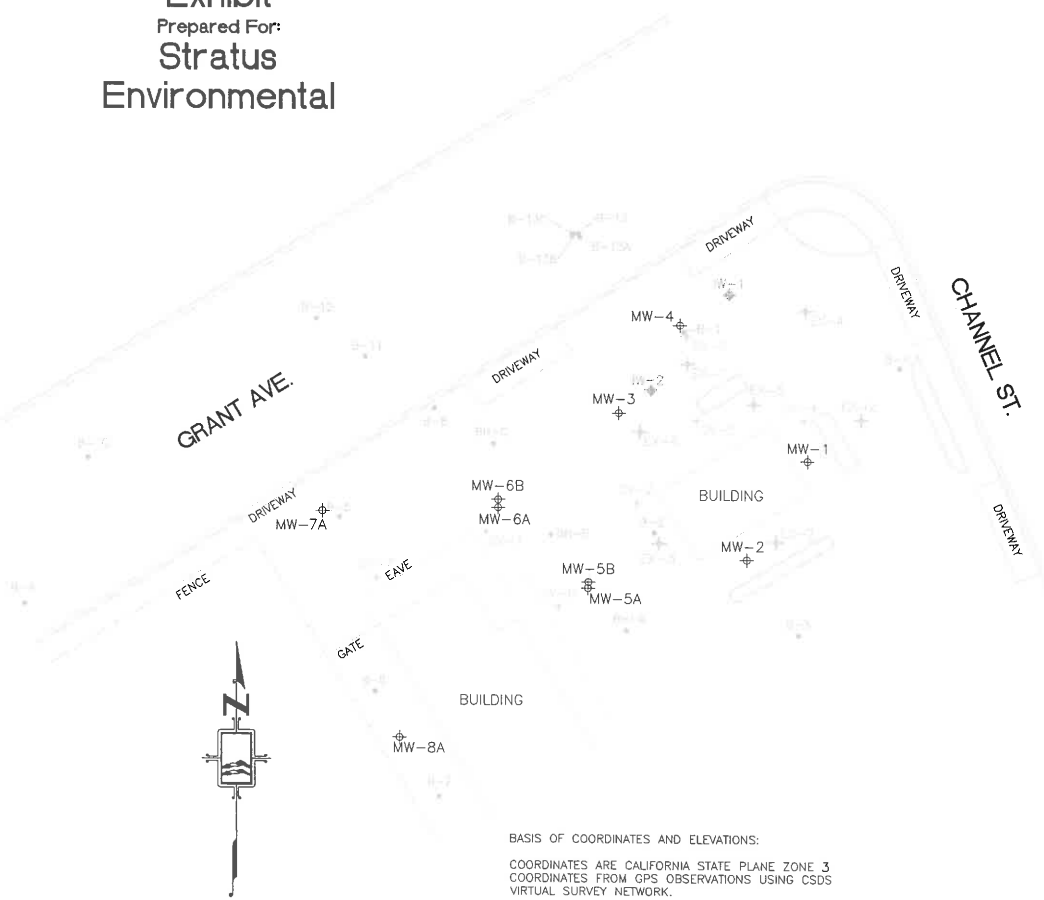


180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

APPENDIX D
SURVEYOR'S MAP

Monitoring Well Exhibit

Prepared For:
Stratus Environmental



BASIS OF COORDINATES AND ELEVATIONS:

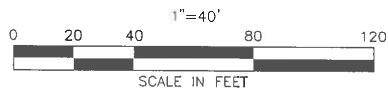
COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3
COORDINATES FROM GPS OBSERVATIONS USING CSDS
VIRTUAL SURVEY NETWORK.

COORDINATE DATUM IS NAD 83.

REFERENCE GEOD IS GEOID03.

VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.

DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL. PVC	EL. RIM	EL. GND
MW-1	2073110.1	6086281.0	37.6769020	-122.1427262	18.60	19.04	
MW-2	2073077.2	6086261.0	37.6768106	-122.1427932	18.00	18.43	
MW-3	2073126.0	6086218.5	37.6769427	-122.1429430	17.95	18.37	
MW-4	2073155.0	6086238.6	37.6770233	-122.1428754	17.99	18.34	
EX-1	2073142.4	6086241.1	37.6769888	-122.1428659	18.14	18.54	
EX-2	2073124.0	6086298.7	37.6769411	-122.1426660	18.14	18.53	
EX-3	2073082.6	6086231.8	37.6768243	-122.1428945	17.63	18.14	
IW-1	2073165.3	6086255.0	37.6770525	-122.1428193		18.41	
IW-2	2073133.6	6086229.1	37.6769642	-122.1429069		18.50	
SV-1	2073086.3	6086174.1	37.6768315	-122.1430940		18.34	
SV-2	2073095.9	6086224.3	37.6768603	-122.1429212		18.37	
SV-3	2073151.4	6086240.9	37.6770136	-122.1428672		18.38	
SV-4	2073123.5	6086279.8	37.6769389	-122.1427312		18.92	
SV-5	2073123.6	6086244.2	37.6769374	-122.1428541		18.79	
B-1	2073153.0	6086239.9	37.6770179	-122.1428709			18.3
B-2	2073086.0	6086230.2	37.6768335	-122.1429001			18.3
B-3	2073052.2	6086278.1	37.6767431	-122.1427329			18.1
B-4	2073141.3	6086311.4	37.6769891	-122.1426229			18.1
B-5	2073090.8	6086125.6	37.6768415	-122.1432620			18.1
B-6	2073033.1	6086137.4	37.6768836	-122.1432178			18.2
B-7	2072998.5	6086158.6	37.6765898	-122.1431422			18.4
B-8	2073127.3	6086157.0	37.6769435	-122.1431558			17.7
B-9	2073061.4	6086020.6	37.6767558	-122.1436630			17.9
B-10	2073110.2	6086041.8	37.6768909	-122.1435526			18.4
B-11	2073144.4	6086134.0	37.6769891	-122.1432360			18.7
B-12	2073156.8	6086117.8	37.6770226	-122.1432928			18.7
B-13	2073185.1	6086204.8	37.6771043	-122.1429940			18.9
B-13A	2073184.0	6086205.4	37.6771015	-122.1429919			18.8
B-13B	2073184.3	6086202.9	37.6771020	-122.1430006			18.9
B-13C	2073185.1	6086203.1	37.6771042	-122.1430000			18.9
BH-A	2073053.5	6086221.0	37.6767438	-122.1429301			18.3
BH-B	2073085.4	6086195.7	37.6768301	-122.1430193			18.2
BH-C	2073115.5	6086176.8	37.6769120	-122.1430866			18.2
WELLS SURVEYED ON 5-30-14:							
MW-5A	2073067.7	6086208.3	37.6767822	-122.1429748	17.94	18.29	
MW-5B	2073069.7	6086208.5	37.6767875	-122.1429744	17.92	18.28	
MW-6A	2073094.3	6086178.4	37.6768537	-122.1430796	18.05	18.29	
MW-6B	2073096.9	6086178.4	37.6768608	-122.1430798	17.69	18.29	
EX-4	2073160.0	6086280.3	37.6770390	-122.1427316	18.30	18.53	
EX-5	2073129.0	6086263.1	37.6769531	-122.1427891	18.41	18.77	
EX-6	2073119.7	6086225.5	37.6769257	-122.1429185	18.29	18.56	
EX-7	2073083.1	6086270.5	37.6768275	-122.1427607	18.06	18.53	
WELLS SURVEYED ON 12-17-15:							
MW-7A	2073092.8	6086119.9	37.6768469	-122.1432815	17.65	17.94	
MW-8A	2073017.9	6086145.6	37.6766424	-122.1431884	18.08	18.34	
SV-6	2073061.3	6086198.3	37.6767641	-122.1430087			
SV-7	2073070.7	6086137.8	37.6767871	-122.1432185			



Former Olympic Service Station
1436 Grant Ave.
San Lorenzo
Alameda County
California



1255 Starboard Drive
West Sacramento
California 95691
(916) 372-8124
moll@morrowssurveying.com

Date: June, 2011
Field: 6-15-11, 5-30-14
Scale: 1"=40'
Sheet 1 of 1
Revised: 6-2-14,
12-17-15
Field Book: MW-53
Dwg. No. 7502-106 MM

APPENDIX E

CERTIFIED 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 : 12/18/15

Job: Olyptic

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-7A				
Lab ID : STR15121807-01A	TPH-P (GRO)	350	50 µg/L	12/23/15
Date Sampled 12/17/15 04:37	Methyl tert-butyl ether (MTBE)	37	0.50 µg/L	12/23/15
	Benzene	ND	0.50 µg/L	12/23/15
	Toluene	ND	0.50 µg/L	12/23/15
	Ethylbenzene	1.2	0.50 µg/L	12/23/15
	m,p-Xylene	ND	0.50 µg/L	12/23/15
	o-Xylene	ND	0.50 µg/L	12/23/15
Client ID : MW-8A				
Lab ID : STR15121807-02A	TPH-P (GRO)	210	50 µg/L	12/23/15
Date Sampled 12/17/15 04:44	Methyl tert-butyl ether (MTBE)	0.63	0.50 µg/L	12/23/15
	Benzene	ND	0.50 µg/L	12/23/15
	Toluene	ND	0.50 µg/L	12/23/15
	Ethylbenzene	ND	0.50 µg/L	12/23/15
	m,p-Xylene	ND	0.50 µg/L	12/23/15
	o-Xylene	ND	0.50 µg/L	12/23/15

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 NDEP certifications for the data reported - certification #NV00016.



AS

12/29/15

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: STR15121807

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15121807-01A	MW-7A	Aqueous	2
15121807-02A	MW-8A	Aqueous	2

12/29/15
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:
29-Dec-15

QC Summary Report

Work Order:
15121807

Method Blank

File ID: 15122305.D

Sample ID: MBLK MS09W1223B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	11.3		10		113	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	9.33		10		93	70	130			

Laboratory Control Spike

File ID: 15122303.D

Sample ID: GLCS MS09W1223B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	436	50	400		109	70	130			
Surr: 1,2-Dichloroethane-d4	12.1		10		121	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	9.01		10		90	70	130			

Sample Matrix Spike

File ID: 15122326.D

Sample ID: 15121807-01AGS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2500	250	2000	354.9	107	54	143			
Surr: 1,2-Dichloroethane-d4	60.7		50		121	70	130			
Surr: Toluene-d8	50.9		50		102	70	130			
Surr: 4-Bromofluorobenzene	45.2		50		90	70	130			

Sample Matrix Spike Duplicate

File ID: 15122327.D

Sample ID: 15121807-01AGSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2580	250	2000	354.9	111	54	143	2502	3.1(23)	
Surr: 1,2-Dichloroethane-d4	61.4		50		123	70	130			
Surr: Toluene-d8	51.3		50		103	70	130			
Surr: 4-Bromofluorobenzene	47.4		50		95	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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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
29-Dec-15

QC Summary Report

Work Order:
15121807

Method Blank

File ID: 15122305.D

Sample ID: MBLK MS09W1223A

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	11.3		10		113	70	130			
Surr: Toluene-d8	10.6		10		106	70	130			
Surr: 4-Bromofluorobenzene	9.33		10		93	70	130			

Laboratory Control Spike

File ID: 15122302.D

Sample ID: LCS MS09W1223A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	9.91	0.5	10		99	63	137			
Benzene	8.23	0.5	10		82	70	130			
Toluene	9.21	0.5	10		92	70	130			
Ethylbenzene	9.86	0.5	10		99	70	130			
m,p-Xylene	9.64	0.5	10		96	65	139			
o-Xylene	9.37	0.5	10		94	70	130			
Surr: 1,2-Dichloroethane-d4	12.1		10		121	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	8.86		10		89	70	130			

Sample Matrix Spike

File ID: 15122324.D

Sample ID: 15121807-01AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	86.7	1.3	50	37.01	99	56	140			
Benzene	40.4	1.3	50	0	81	67	134			
Toluene	44.5	1.3	50	0	89	38	130			
Ethylbenzene	50.1	1.3	50	1.22	98	70	130			
m,p-Xylene	47.5	1.3	50	0	95	65	139			
o-Xylene	46.6	1.3	50	0	93	69	130			
Surr: 1,2-Dichloroethane-d4	63		50		126	70	130			
Surr: Toluene-d8	49.3		50		99	70	130			
Surr: 4-Bromofluorobenzene	44		50		88	70	130			

Sample Matrix Spike Duplicate

File ID: 15122325.D

Sample ID: 15121807-01AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	89.4	1.3	50	37.01	105	56	140	86.69	3.1(40)	
Benzene	41.3	1.3	50	0	83	67	134	40.4	2.3(21)	
Toluene	45.8	1.3	50	0	92	38	130	44.53	2.7(20)	
Ethylbenzene	51.6	1.3	50	1.22	101	70	130	50.14	3.0(20)	
m,p-Xylene	48.7	1.3	50	0	97	65	139	47.45	2.7(20)	
o-Xylene	47.8	1.3	50	0	96	69	130	46.61	2.5(20)	
Surr: 1,2-Dichloroethane-d4	62.7		50		125	70	130			
Surr: Toluene-d8	50.1		50		100	70	130			
Surr: 4-Bromofluorobenzene	43.9		50		88	70	130			



Alpha Analytical, Inc.

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

Date:
29-Dec-15

QC Summary Report

Work Order:
15121807

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

NV

Alpha Analytical, Inc.

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

WorkOrder : STR15121807

Report Due By : 5:00 PM On : 28-Dec-15

Client:

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

Report Attention

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

Phone Number

E-Mail Address

EDD Required : Yes

Sampled by : C. Hill

PO :

Client's COC # : 54889 Job : Olympic
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp 1 °C Samples Received 18-Dec-15 Date Printed 18-Dec-15

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests			Sample Remarks	
				Alpha	Sub	TPH/P_W	VOC_W			
STR15121807-01A	MW-7A	AQ	12/17/15 04:37	3	0	5				
STR15121807-02A	MW-8A	AQ	12/17/15 04:44	3	0	5	GAS-C	BTEX/M_LC		

Comments: Security Seals Intact, Frozen Ice. .

Logged in by:  Print Name: Nathalia Pidenhour Company: Alpha Analytical, Inc. Date/Time: 12/17 14:32

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

54889

Samples Collected From Which State?

AZ CA NV WA DOD Site
ID OR OTHER Page # 1 of 1



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

Billing Information: Starks
Company Name _____
Address _____
City, State, Zip _____
Phone Number _____ Fax _____
Attn: _____

Consultant / Client Name		Job #		Job Name		Analyses Required		Data Validation Level: III or IV		
Alpha Analytical, Inc.		Olympic		Olympic						
Address		Name:		Email:		Phone:		Mobile:		
SAW LORENZO		SCOTT		Report Attention / Project Manager						
Time Sampled	Date	Matrix* See Key Below	P.O. #	Lab ID Number (Use Only)	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	REMARKS
0437	12/18	AQ	STRIS21807-01A	MW-7A			STD	N	3	
0444	12/18	AQ	FOH04	MW-8A			STD	N	3	
						LAB				
						USE				
						ONLY				

ADDITIONAL INSTRUCTIONS:

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

Relinquished by: (Signature/Affiliation)	<u>Scott Starks</u>	Received by: (Signature/Affiliation)	<u>E. F. M. G. M. O.</u>
Relinquished by: (Signature/Affiliation)		Received by: (Signature/Affiliation)	<u>A. B.</u>
Relinquished by: (Signature/Affiliation)		Received by: (Signature/Affiliation)	

Date: 12/18	Time: 14:17
Date:	Time:
Date:	Time:

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



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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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 : 01/12/16

Job: Olypic

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

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : MW-5A					
Lab ID : STR16011228-01A	TPH-P (GRO)	1,100	200 µg/L	01/13/16	01/13/16
Date Sampled 01/11/16 06:07	Methyl tert-butyl ether (MTBE)	ND	V 1.0 µg/L	01/13/16	01/13/16
	Benzene	230	1.0 µg/L	01/13/16	01/13/16
	Toluene	ND	V 1.0 µg/L	01/13/16	01/13/16
	Ethylbenzene	42	1.0 µg/L	01/13/16	01/13/16
	m,p-Xylene	ND	V 1.0 µg/L	01/13/16	01/13/16
	o-Xylene	ND	V 1.0 µg/L	01/13/16	01/13/16
Client ID : MW-6A					
Lab ID : STR16011228-02A	TPH-P (GRO)	1,700	400 µg/L	01/13/16	01/13/16
Date Sampled 01/11/16 06:13	Methyl tert-butyl ether (MTBE)	43	2.0 µg/L	01/13/16	01/13/16
	Benzene	480	2.0 µg/L	01/13/16	01/13/16
	Toluene	ND	V 2.0 µg/L	01/13/16	01/13/16
	Ethylbenzene	ND	V 2.0 µg/L	01/13/16	01/13/16
	m,p-Xylene	3.7	2.0 µg/L	01/13/16	01/13/16
	o-Xylene	49	2.0 µg/L	01/13/16	01/13/16
Client ID : MW-7A					
Lab ID : STR16011228-03A	TPH-P (GRO)	470	100 µg/L	01/13/16	01/13/16
Date Sampled 01/11/16 06:30	Methyl tert-butyl ether (MTBE)	20	0.50 µg/L	01/13/16	01/13/16
	Benzene	ND	0.50 µg/L	01/13/16	01/13/16
	Toluene	ND	0.50 µg/L	01/13/16	01/13/16
	Ethylbenzene	4.6	0.50 µg/L	01/13/16	01/13/16
	m,p-Xylene	ND	0.50 µg/L	01/13/16	01/13/16
	o-Xylene	ND	0.50 µg/L	01/13/16	01/13/16
Client ID : MW-8A					
Lab ID : STR16011228-04A	TPH-P (GRO)	ND	50 µg/L	01/13/16	01/13/16
Date Sampled 01/11/16 06:20	Methyl tert-butyl ether (MTBE)	0.65	0.50 µg/L	01/13/16	01/13/16
	Benzene	ND	0.50 µg/L	01/13/16	01/13/16
	Toluene	ND	0.50 µg/L	01/13/16	01/13/16
	Ethylbenzene	ND	0.50 µg/L	01/13/16	01/13/16
	m,p-Xylene	ND	0.50 µg/L	01/13/16	01/13/16
	o-Xylene	ND	0.50 µg/L	01/13/16	01/13/16



Alpha Analytical, Inc.

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Gasoline Range Organics (GRO) C4-C13

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

ND = Not Detected

Reported in micrograms per Liter, per client request.



Roger Scholl

Randy Gardner

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.



PS

1/19/16

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
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VOC Sample Preservation Report

Work Order: STR16011228

Job: Olympic

Alpha's Sample ID	Client's Sample ID	Matrix	pH
16011228-01A	MW-5A	Aqueous	2
16011228-02A	MW-6A	Aqueous	2
16011228-03A	MW-7A	Aqueous	2
16011228-04A	MW-8A	Aqueous	2

1/19/16

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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

Date:
19-Jan-16

QC Summary Report

Work Order:
16011228

Method Blank

File ID: 16011304.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0113B

Analysis Date: 01/13/2016 12:42

Sample ID: MBLK MS08W0113B

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/13/2016 12:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	50								
Surr: 1,2-Dichloroethane-d4	9.31		10		93	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.55		10		96	70	130			

Laboratory Control Spike

File ID: 16011303.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0113B

Analysis Date: 01/13/2016 11:59

Sample ID: GLCS MS08W0113B

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/13/2016 11:59

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	388	50	400		97	70	130			
Surr: 1,2-Dichloroethane-d4	9.14		10		91	70	130			
Surr: Toluene-d8	9.83		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.5		10		105	70	130			

Sample Matrix Spike

File ID: 16011415.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0113B

Analysis Date: 01/14/2016 16:51

Sample ID: 16011228-04AGS

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/14/2016 16:51

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1660	250	2000	0	83	54	143			
Surr: 1,2-Dichloroethane-d4	45.6		50		91	70	130			
Surr: Toluene-d8	50.2		50		100	70	130			
Surr: 4-Bromofluorobenzene	52.4		50		105	70	130			

Sample Matrix Spike Duplicate

File ID: 16011416.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS08W0113B

Analysis Date: 01/14/2016 17:16

Sample ID: 16011228-04AGSD

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/14/2016 17:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1890	250	2000	0	94	54	143	1665	12.4(23)	
Surr: 1,2-Dichloroethane-d4	45.7		50		91	70	130			
Surr: Toluene-d8	49.6		50		99	70	130			
Surr: 4-Bromofluorobenzene	53		50		106	70	130			

Comments:

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

Reported in micrograms per Liter, per client request.



Alpha Analytical, Inc.

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

Date:
19-Jan-16

QC Summary Report

Work Order:
16011228

Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: 16011304.D

Batch ID: MS08W0113A

Analysis Date: 01/13/2016 12:42

Sample ID: MBLK MS08W0113A

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/13/2016 12:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.31		10		93	70	130			
Surr: Toluene-d8	10.7		10		107	70	130			
Surr: 4-Bromofluorobenzene	9.55		10		96	70	130			

Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: 16011302.D

Batch ID: MS08W0113A

Analysis Date: 01/13/2016 11:35

Sample ID: LCS MS08W0113A

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/13/2016 11:35

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	9.73	0.5	10		97	70	130			
Toluene	9.77	0.5	10		98	70	130			
Ethylbenzene	10.5	0.5	10		105	70	130			
m,p-Xylene	10.6	0.5	10		106	65	139			
o-Xylene	10.2	0.5	10		102	70	130			
Surr: 1,2-Dichloroethane-d4	9.52		10		95	70	130			
Surr: Toluene-d8	9.84		10		98	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: 16011413.D

Batch ID: MS08W0113A

Analysis Date: 01/14/2016 16:04

Sample ID: 16011228-04AMS

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/14/2016 16:04

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	56.6	1.3	50	0.65	112	56	140			
Benzene	46.5	1.3	50	0	93	67	134			
Toluene	47.1	1.3	50	0	94	38	130			
Ethylbenzene	47.3	1.3	50	0	95	70	130			
m,p-Xylene	49.9	1.3	50	0	99.9	65	139			
o-Xylene	46.4	1.3	50	0	93	69	130			
Surr: 1,2-Dichloroethane-d4	46.8		50		94	70	130			
Surr: Toluene-d8	49.4		50		99	70	130			
Surr: 4-Bromofluorobenzene	52.7		50		105	70	130			

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: 16011414.D

Batch ID: MS08W0113A

Analysis Date: 01/14/2016 16:27

Sample ID: 16011228-04AMSD

Units: µg/L

Run ID: MSD_08_160113A

Prep Date: 01/14/2016 16:27

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	62.5	1.3	50	0.65	124	56	140	56.57	10.0(40)	
Benzene	50.4	1.3	50	0	101	67	134	46.48	8.0(21)	
Toluene	50.5	1.3	50	0	101	38	130	47.09	7.0(20)	
Ethylbenzene	51.6	1.3	50	0	103	70	130	47.34	8.6(20)	
m,p-Xylene	51.8	1.3	50	0	104	65	139	49.93	3.6(20)	
o-Xylene	50.1	1.3	50	0	100	69	130	46.43	7.6(20)	
Surr: 1,2-Dichloroethane-d4	47.9		50		96	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	51.1		50		102	70	130			



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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

Date:

19-Jan-16

QC Summary Report

Work Order:

16011228

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

CA

Alpha Analytical, Inc.

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

WorkOrder : STR16011228

Report Due By : 5:00 PM On : 19-Jan-16

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

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

EDD Required : Yes

Sampled by : C. Hill

Cooler Temp 0 °C
 Samples Received 12-Jan-16
 Date Printed 12-Jan-16

PO : Client's COC # : 54893 Job : Olympic

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

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests				Sample Remarks					
				Alpha	Sub	TAT	TPHP_W	VOC_W							
STR16011228-01A	MW-5A	AQ	01/11/16 06:07	3	0	5									
STR16011228-02A	MW-6A	AQ	01/11/16 06:13	3	0	5									
STR16011228-03A	MW-7A	AQ	01/11/16 06:30	3	0	5									
STR16011228-04A	MW-8A	AQ	01/11/16 06:20	3	0	5									

Comments: Security seals intact. Frozen ice...

Logged in by: K. Murray Signature K. Murray Print Name Alpha Analytical, Inc. Company Alpha Analytical, Inc. Date/Time 1/12/16 1120

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

54893

Billing Information: *Stacks*

Samples Collected From Which State?
 AZ CA NV WA DOD Site
 ID OR OTHER Page # 1 of 1



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

Company Name _____
 Attn: _____
 Address _____
 City, State, Zip _____
 Phone Number _____ Fax _____

Consultant / Client Name		Job #		Job Name		Analyses Required		Data Validation Level: III or IV	
Olympic		SCOTT		Report Attention / Project Manager					
Address		Name: <i>Scott</i>		Email:		Phone:		Mobile:	
Time Sampled	Date Sampled	Matrix See Key Below	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	REMARKS	
06/20/11	06/20/11	HR	STR1601228-01	MW-5A	STD	N	3-V	X	GRO B15M
06/20/11	06/20/11)	FOR 02	MW-6A)	N	3-V	X	BKX 8
06/20/11	06/20/11	HR	FOR 03	MW-7A	STD	N	3-V	X	MTR
06/20/11	06/20/11	HR	FOR 04	MW-8A	STD	N	3-V	X	BKX 8
				LAB					
				USE					
				ONLY					

ADDITIONAL INSTRUCTIONS:

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

Relinquished by: (Signature/Affiliation) *Stacks* Date: *01/11/10* Time: *1500*

Relinquished by: (Signature/Affiliation) *Kidman* Date: *1/12/10* Time: *1115*

Relinquished by: (Signature/Affiliation) _____ Date: _____ Time: _____

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



Date of Report: 02/18/2016

Scott Bittinger

Stratus Environmental, Inc.

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Client Project: Olympic-Jaber
BCL Project: Olympic Gas-San Lorenzo
BCL Work Order: 1602961
Invoice ID: B226945

Enclosed are the results of analyses for samples received by the laboratory on 2/1/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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BC Laboratories, Inc.

Environmental Testing Laboratory Since 1949

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 16-02961

SHIPPING INFORMATION
Fed Ex UPS Ontra Hand Delivery
BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
Ice Chest None Box
Other (Specify) _____

FREE LIQUID
YES NO

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received YES NO Emissivity: _____ Contain: fed transfer Thermometer ID: _____ Date/Time 2-1-16
Temperature: (A) Room °C / (C) Temp °C Analyst Init 9-19

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A					

Comments: _____
Sample Numbering Completed By: _____ Date/Time: 2-1-16 1130 Rev 20 07/24/2015
A = Actual / C = Corrected

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]



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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1602961-01	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 11:30
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-4 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
			Delivery Work Order:
			Global ID: T0600102256
			Location ID (FieldPoint): SV-4
			Matrix: V
			Sample QC Type (SACode): CS
		Cooler ID:	
1602961-02	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 12:23
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-2 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
			Delivery Work Order:
			Global ID: T0600102256
			Location ID (FieldPoint): SV-2
			Matrix: V
			Sample QC Type (SACode): CS
		Cooler ID:	
1602961-03	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 13:01
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-1 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
			Delivery Work Order:
			Global ID: T0600102256
			Location ID (FieldPoint): SV-1
			Matrix: V
			Sample QC Type (SACode): CS
		Cooler ID:	

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1602961-04	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 13:35
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-6 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
			Delivery Work Order:
			Global ID: T0600102256
			Location ID (FieldPoint): SV-6
			Matrix: V
			Sample QC Type (SACode): CS
			Cooler ID:
1602961-05	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 14:09
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-7 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
			Delivery Work Order:
			Global ID: T0600102256
			Location ID (FieldPoint): SV-7
			Matrix: V
			Sample QC Type (SACode): CS
			Cooler ID:

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittering

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-01 Client Sample Name: Olympic-Jaber, SV-4 Soil Vapor Sample, 1/28/2016 11:30:00AM, Allan Dudding

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/m3 Air	28	7.4	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3 Air	38	4.9	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3 Air	22	8.3	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3 Air	32	4.5	EPA-TO-15	ND	A01	1
Naphthalene	ND	ug/m3 Air	460	190	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3 Air	33	5.6	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3 Air	38	11	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3 Air	38	4.4	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3 Air	77	15	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ug/m3 Air	3600	360	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	89.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/10/16 22:00	MJB	MS-A1	17.700	BZB1076

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-01	Client Sample Name: Olympic-Jaber, SV-4 Soil Vapor Sample, 1/28/2016 11:30:00AM, Allan Dudding
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	26000000	ug/m3 Air	1800000	1100000	ASTM-D1946	ND		1
Methane (CH4)	57000	ug/m3 Air	1300	1300	ASTM-D1946	ND		1
Oxygen (O2)	160000000	ug/m3 Air	260000	210000	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 09:54	jh2	04201	1	BZB0903

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-02		Client Sample Name: Olympic-Jaber, SV-2 Soil Vapor Sample, 1/28/2016 12:23:00PM, Allan Dudding						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/m3 Air	27	7.1	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3 Air	37	4.8	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3 Air	21	8.0	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3 Air	31	4.3	EPA-TO-15	ND	A01	1
Naphthalene	ND	ug/m3 Air	450	190	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3 Air	32	5.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3 Air	37	10	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3 Air	37	4.2	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3 Air	74	15	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ug/m3 Air	3500	350	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	85.3	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/10/16 22:35	MJB	MS-A1	17.100	BZB1076

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-02	Client Sample Name: Olympic-Jaber, SV-2 Soil Vapor Sample, 1/28/2016 12:23:00PM, Allan Dudding
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	19000000	ug/m3 Air	1800000	1100000	ASTM-D1946	ND		1
Methane (CH4)	29000	ug/m3 Air	1300	1300	ASTM-D1946	ND		1
Oxygen (O2)	42000000	ug/m3 Air	260000	210000	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 10:14	jh2	04201	1	BZB0903

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-03	Client Sample Name: Olympic-Jaber, SV-1 Soil Vapor Sample, 1/28/2016 1:01:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/m3 Air	29	7.5	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3 Air	39	5.0	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3 Air	22	8.4	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3 Air	32	4.5	EPA-TO-15	ND	A01	1
Naphthalene	ND	ug/m3 Air	470	200	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3 Air	34	5.7	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3 Air	39	11	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3 Air	39	4.5	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3 Air	78	16	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ug/m3 Air	3700	370	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	79.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/10/16 23:09	MJB	MS-A1	18	BZB1076

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-03	Client Sample Name: Olympic-Jaber, SV-1 Soil Vapor Sample, 1/28/2016 1:01:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	23000000	ug/m3 Air	1800000	1100000	ASTM-D1946	ND		1
Methane (CH4)	ND	ug/m3 Air	1300	1300	ASTM-D1946	ND		1
Oxygen (O2)	81000000	ug/m3 Air	260000	210000	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 10:33	jh2	04201	1	BZB0903

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-04	Client Sample Name: Olympic-Jaber, SV-6 Soil Vapor Sample, 1/28/2016 1:35:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/m3 Air	22	5.6	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3 Air	30	3.8	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3 Air	17	6.4	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3 Air	25	3.4	EPA-TO-15	ND	A01	1
Naphthalene	ND	ug/m3 Air	360	150	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3 Air	26	4.3	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3 Air	30	8.3	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3 Air	30	3.4	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3 Air	59	12	EPA-TO-15	ND	A01	1
TPH - Gasoline	6900	ug/m3 Air	2800	280	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	83.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-TO-15	02/10/16	02/10/16	23:44	MJB	MS-A1	13.600	BZB1076

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	1602961-04	Client Sample Name:	Olympic-Jaber, SV-6 Soil Vapor Sample, 1/28/2016 1:35:00PM, Allan Dudding					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	26000000	ug/m3 Air	1800000	1100000	ASTM-D1946	ND		1
Methane (CH4)	260000	ug/m3 Air	1300	1300	ASTM-D1946	ND		1
Oxygen (O2)	19000000	ug/m3 Air	260000	210000	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 10:53	jh2	04201	1	BZB0903

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-05	Client Sample Name: Olympic-Jaber, SV-7 Soil Vapor Sample, 1/28/2016 2:09:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/m3 Air	22	5.7	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ug/m3 Air	30	3.8	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ug/m3 Air	17	6.4	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ug/m3 Air	25	3.5	EPA-TO-15	ND	A01	1
Naphthalene	ND	ug/m3 Air	360	150	EPA-TO-15	ND	A01	1
Toluene	ND	ug/m3 Air	26	4.3	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ug/m3 Air	30	8.3	EPA-TO-15	ND	A01	1
o-Xylene	ND	ug/m3 Air	30	3.4	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ug/m3 Air	59	12	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ug/m3 Air	2800	280	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	79.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/11/16 00:17	MJB	MS-A1	13.700	BZB1076

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-05	Client Sample Name: Olympic-Jaber, SV-7 Soil Vapor Sample, 1/28/2016 2:09:00PM, Allan Dudding
---------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	10000000	ug/m3 Air	1800000	1100000	ASTM-D1946	ND		1
Methane (CH4)	ND	ug/m3 Air	1300	1300	ASTM-D1946	ND		1
Oxygen (O2)	170000000	ug/m3 Air	260000	210000	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 11:13	jh2	04201	1	BZB0903

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZB1076						
Benzene	BZB1076-BLK1	ND	ug/m3 Air	1.6	0.42	
Ethylbenzene	BZB1076-BLK1	ND	ug/m3 Air	2.2	0.28	
Isopropyl alcohol	BZB1076-BLK1	ND	ug/m3 Air	1.2	0.47	
Methyl t-butyl ether	BZB1076-BLK1	ND	ug/m3 Air	1.8	0.25	
Naphthalene	BZB1076-BLK1	ND	ug/m3 Air	26	11	
Toluene	BZB1076-BLK1	ND	ug/m3 Air	1.9	0.32	
p- & m-Xylenes	BZB1076-BLK1	ND	ug/m3 Air	2.2	0.61	
o-Xylene	BZB1076-BLK1	ND	ug/m3 Air	2.2	0.25	
Total Xylenes	BZB1076-BLK1	ND	ug/m3 Air	4.3	0.87	
TPH - Gasoline	BZB1076-BLK1	ND	ug/m3 Air	200	20	
4-Bromofluorobenzene (Surrogate)	BZB1076-BLK1	61.4	%	70 - 130 (LCL - UCL)		

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BZB1076										
Benzene	BZB1076-BS1	LCS	17.178	15.974	ug/m3 Air	108		70 - 130		
	BZB1076-BSD1	LCSD	17.651	15.974	ug/m3 Air	110	2.7	70 - 130	30	
Ethylbenzene	BZB1076-BS1	LCS	24.663	21.711	ug/m3 Air	114		70 - 130		
	BZB1076-BSD1	LCSD	24.698	21.711	ug/m3 Air	114	0.1	70 - 130	30	
Toluene	BZB1076-BS1	LCS	22.799	18.842	ug/m3 Air	121		70 - 130		
	BZB1076-BSD1	LCSD	23.492	18.842	ug/m3 Air	125	3.0	70 - 130	30	
p- & m-Xylenes	BZB1076-BS1	LCS	52.314	43.421	ug/m3 Air	120		70 - 130		
	BZB1076-BSD1	LCSD	52.205	43.421	ug/m3 Air	120	0.2	70 - 130	30	
o-Xylene	BZB1076-BS1	LCS	25.810	21.711	ug/m3 Air	119		70 - 130		
	BZB1076-BSD1	LCSD	25.749	21.711	ug/m3 Air	119	0.2	70 - 130	30	
Total Xylenes	BZB1076-BS1	LCS	78.124	65.132	ug/m3 Air	120		70 - 130		
	BZB1076-BSD1	LCSD	77.954	65.132	ug/m3 Air	120	0.2	70 - 130	30	
4-Bromofluorobenzene (Surrogate)	BZB1076-BS1	LCS	69.3	71.6	ug/m3 Air	96.8		70 - 130		
	BZB1076-BSD1	LCSD	68.0	71.6	ug/m3 Air	95.0	1.9	70 - 130		

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZB0903						
Carbon dioxide (CO2)	BZB0903-BLK1	ND	ug/m3 Air	1800000	1100000	
Methane (CH4)	BZB0903-BLK1	ND	ug/m3 Air	1300	1300	
Oxygen (O2)	BZB0903-BLK1	ND	ug/m3 Air	260000	210000	

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BZB0903										
Carbon dioxide (CO2)	BZB0903-BS1	LCS	113090000	108000000	ug/m3 Air	105		70 - 130		
	BZB0903-BSD1	LCSD	113700000	108000000	ug/m3 Air	105	0.5	70 - 130	30	
Methane (CH4)	BZB0903-BS1	LCS	13090000	11810000	ug/m3 Air	111		70 - 130		
	BZB0903-BSD1	LCSD	13175000	11810000	ug/m3 Air	112	0.6	70 - 130	30	
Oxygen (O2)	BZB0903-BS1	LCS	21437000	20940000	ug/m3 Air	102		70 - 130		
	BZB0903-BSD1	LCSD	21581000	20940000	ug/m3 Air	103	0.7	70 - 130	30	

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

Reported: 02/18/2016 10:09
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 02/17/2016

Scott Bittinger

Stratus Environmental, Inc.

3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Client Project: Olympic-Jaber
BCL Project: Olympic Gas-San Lorenzo
BCL Work Order: 1602961
Invoice ID: B226945

Enclosed are the results of analyses for samples received by the laboratory on 2/1/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form



Report To: Strand at EnVision, Winkler, Inc. Project #:
 Attn: Scott Bittner Project Name: Olympe-Jaker
 Street Address: 1436 Grant Ave
 City, State, Zip: San Loren 20 CA Sampler(s): Allen Dooling
 Phone: 530-676-2002 Fax: 530-676-6005
 Email Address: sbittner@bc-labs.com
 Work Order #: 16-02961

Analysis Requested

Soil	
Slide	
Drinking Water	
Ground Water	
Waste Water	
Sample Matrix	
Soil	X
Vapor	X
Other	
Turnaround # of work days	10

Are there any tests with holding times less than or equal to 48 hours?
 Yes No
 * Standard Turnaround = 10 work days

Sample #	Description	Date Sampled	Time Sampled
SU-4	Soil Vapor Sample -1	1/28/16	1130
SU-2	-2	1/28/16	1223
SU-1	-3	1/28/16	1304
SU-6	-4	1/28/16	1335
SU-7	-5	1/28/16	1409

Comments:

ASTM 1941, O, CH, CO
 10-12: Methyl Chloride
 Methyl Chloride, Isoprene
 TO-15: GAO DEXMPE
 TO-15: GAO

Global ID (Needed for EDT): T0600102256 System # (Needed for EDT):

EDF Required? Geotracker Yes No

Send Copy to State of CA? (EDT) Yes No

Client: Strand at EnVision, Winkler, Inc. Address: 330 Cameron Park Dr. #550 City: Cameron Park State: CA Zip: 95681

Attn: PO#:

1. Relinquished By: [Signature] Date: 1/29/16 Time: 11:00

2. Relinquished By: [Signature] Date: 1/29/16 Time: 1200

3. Relinquished By: [Signature] Date: 2/1/16 Time: 9:15

CHK BY: [Signature] DISTRIBUTION: SUB-OUIT:

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page 1 Of 1								
Submission #: 16-02961												
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/>							
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____												
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>												
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
COC Received YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		Emissivity: _____ Containers: Fed Ex <input checked="" type="checkbox"/> Thermometer ID: _____ Temperature: (A) Room °C / (C) Temp °C		Date/Time: 2-1-16 Analyst Injt: JH 9-15								
SAMPLE CONTAINERS			SAMPLE NUMBERS									
			1	2	3	4	5	6	7	8	9	10
QT PE UNPRES												
4oz / 8oz / 16oz PE UNPRES												
2oz Cr ⁶												
QT INORGANIC CHEMICAL METALS												
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz												
PT CYANIDE												
PT NITROGEN FORMS												
PT TOTAL SULFIDE												
2oz. NITRATE / NITRITE												
PT TOTAL ORGANIC CARBON												
PT CHEMICAL OXYGEN DEMAND												
PIA PHENOLICS												
40ml VOA VIAL TRAVEL BLANK												
40ml VOA VIAL												
QT EPA 1664												
PT ODOR												
RADIOLOGICAL												
BACTERIOLOGICAL												
40 ml VOA VIAL- 504												
QT EPA 508/608/8080												
QT EPA 515.1/8150												
QT EPA 525												
QT EPA 525 TRAVEL BLANK												
40ml EPA 547												
40ml EPA 531.1												
8oz EPA 548												
QT EPA 549												
QT EPA 8015M												
QT EPA 8270												
8oz / 16oz / 32oz AMBER												
8oz / 16oz / 32oz JAR												
SOIL SLEEVE												
PCB VIAL												
PLASTIC BAG												
TEDLAR BAG												
FERROUS IRON												
ENCORE												
SMART KIT												
SUMMA CANISTER	A	A	A	A	A							

Comments: _____
 Sample Numbering Completed By: _____ Date/Time: 2-1-16 1130 Rev 20 07/24/2015
 A = Actual / C = Corrected



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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1602961-01	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 11:30
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-4 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
1602961-02	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 12:23
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-2 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
1602961-03	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 13:01
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-1 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
1602961-04	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 13:35
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-6 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography
1602961-05	COC Number:	---	Receive Date: 02/01/2016 09:15
	Project Number:	Olympic-Jaber	Sampling Date: 01/28/2016 14:09
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SV-7 Soil Vapor Sample	Lab Matrix: Air
	Sampled By:	Allan Dudding of SECP	Sample Type: Gas Chromatography

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID:	1602961-01	Client Sample Name:	Olympic-Jaber, SV-4 Soil Vapor Sample, 1/28/2016 11:30:00AM, Allan Dudding
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ppbv	8.8	2.3	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppbv	8.8	1.1	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppbv	8.8	3.4	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppbv	8.8	1.2	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppbv	88	37	EPA-TO-15	ND	A01	1
Toluene	ND	ppbv	8.8	1.5	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppbv	8.8	2.5	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppbv	8.8	1.0	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppbv	18	3.5	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ppbv	880	88	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	89.0	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/10/16 22:00	MJB	MS-A1	17.700	BZB1076

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-01	Client Sample Name: Olympic-Jaber, SV-4 Soil Vapor Sample, 1/28/2016 11:30:00AM, Allan Dudding
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	1.4	% by Vol.	0.10	0.060	ASTM-D1946	ND		1
Methane (CH4)	0.0086	% by Vol.	0.00020	0.00020	ASTM-D1946	ND		1
Oxygen (O2)	12	% by Vol.	0.020	0.016	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	ASTM-D1946	02/09/16	02/09/16 09:54	jh2	04201	1	BZB0903

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Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682	Reported: 02/17/2016 15:00 Project: Olympic Gas-San Lorenzo Project Number: Olympic-Jaber Project Manager: Scott Bittinger
---	---

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-02	Client Sample Name: Olympic-Jaber, SV-2 Soil Vapor Sample, 1/28/2016 12:23:00PM, Allan Dudding
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ppbv	8.6	2.2	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppbv	8.6	1.1	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppbv	8.6	3.2	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppbv	8.6	1.2	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppbv	86	36	EPA-TO-15	ND	A01	1
Toluene	ND	ppbv	8.6	1.4	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppbv	8.6	2.4	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppbv	8.6	0.97	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppbv	17	3.4	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ppbv	860	86	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	85.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/10/16 22:35	MJB	MS-A1	17.100	BZB1076

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-02	Client Sample Name: Olympic-Jaber, SV-2 Soil Vapor Sample, 1/28/2016 12:23:00PM, Allan Dudding
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	1.1	% by Vol.	0.10	0.060	ASTM-D1946	ND		1
Methane (CH4)	0.0044	% by Vol.	0.00020	0.00020	ASTM-D1946	ND		1
Oxygen (O2)	3.2	% by Vol.	0.020	0.016	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 10:14	jh2	04201	1	BZB0903

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-03	Client Sample Name: Olympic-Jaber, SV-1 Soil Vapor Sample, 1/28/2016 1:01:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ppbv	9.0	2.3	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppbv	9.0	1.2	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppbv	9.0	3.4	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppbv	9.0	1.3	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppbv	90	38	EPA-TO-15	ND	A01	1
Toluene	ND	ppbv	9.0	1.5	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppbv	9.0	2.5	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppbv	9.0	1.0	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppbv	18	3.6	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ppbv	900	90	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	79.6	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/10/16 23:09	MJB	MS-A1	18	BZB1076

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-03	Client Sample Name: Olympic-Jaber, SV-1 Soil Vapor Sample, 1/28/2016 1:01:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	1.3	% by Vol.	0.10	0.060	ASTM-D1946	ND		1
Methane (CH4)	ND	% by Vol.	0.00020	0.00020	ASTM-D1946	ND		1
Oxygen (O2)	6.2	% by Vol.	0.020	0.016	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 10:33	jh2	04201	1	BZB0903

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-04	Client Sample Name: Olympic-Jaber, SV-6 Soil Vapor Sample, 1/28/2016 1:35:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ppbv	6.8	1.8	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppbv	6.8	0.87	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppbv	6.8	2.6	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppbv	6.8	0.95	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppbv	68	29	EPA-TO-15	ND	A01	1
Toluene	ND	ppbv	6.8	1.1	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppbv	6.8	1.9	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppbv	6.8	0.78	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppbv	14	2.7	EPA-TO-15	ND	A01	1
TPH - Gasoline	1700	ppbv	680	68	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	83.4	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-TO-15	02/10/16	02/10/16	23:44	MJB	MS-A1	13.600	BZB1076

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Stratus Environmental, Inc. 3330 Cameron Park Drive, Suite 550 Cameron Park, CA 95682	Reported: 02/17/2016 15:00 Project: Olympic Gas-San Lorenzo Project Number: Olympic-Jaber Project Manager: Scott Bittinger
---	---

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-04	Client Sample Name: Olympic-Jaber, SV-6 Soil Vapor Sample, 1/28/2016 1:35:00PM, Allan Dudding
---------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	1.5	% by Vol.	0.10	0.060	ASTM-D1946	ND		1
Methane (CH4)	0.040	% by Vol.	0.00020	0.00020	ASTM-D1946	ND		1
Oxygen (O2)	1.5	% by Vol.	0.020	0.016	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 10:53	jh2	04201	1	BZB0903

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

BCL Sample ID: 1602961-05	Client Sample Name: Olympic-Jaber, SV-7 Soil Vapor Sample, 1/28/2016 2:09:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ppbv	6.8	1.8	EPA-TO-15	ND	A01	1
Ethylbenzene	ND	ppbv	6.8	0.88	EPA-TO-15	ND	A01	1
Isopropyl alcohol	ND	ppbv	6.8	2.6	EPA-TO-15	ND	A01	1
Methyl t-butyl ether	ND	ppbv	6.8	0.96	EPA-TO-15	ND	A01	1
Naphthalene	ND	ppbv	68	29	EPA-TO-15	ND	A01	1
Toluene	ND	ppbv	6.8	1.2	EPA-TO-15	ND	A01	1
p- & m-Xylenes	ND	ppbv	6.8	1.9	EPA-TO-15	ND	A01	1
o-Xylene	ND	ppbv	6.8	0.78	EPA-TO-15	ND	A01	1
Total Xylenes	ND	ppbv	14	2.7	EPA-TO-15	ND	A01	1
TPH - Gasoline	ND	ppbv	680	68	EPA-TO-15	ND	A01	1
4-Bromofluorobenzene (Surrogate)	79.5	%	70 - 130 (LCL - UCL)		EPA-TO-15			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15	02/10/16	02/11/16 00:17	MJB	MS-A1	13.700	BZB1076

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID: 1602961-05	Client Sample Name: Olympic-Jaber, SV-7 Soil Vapor Sample, 1/28/2016 2:09:00PM, Allan Dudding
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Carbon dioxide (CO2)	0.58	% by Vol.	0.10	0.060	ASTM-D1946	ND		1
Methane (CH4)	ND	% by Vol.	0.00020	0.00020	ASTM-D1946	ND		1
Oxygen (O2)	13	% by Vol.	0.020	0.016	ASTM-D1946	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	ASTM-D1946	02/09/16	02/09/16 11:13	jh2	04201	1	BZB0903

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZB1076						
Benzene	BZB1076-BLK1	ND	ppbv	0.50	0.13	
Ethylbenzene	BZB1076-BLK1	ND	ppbv	0.50	0.064	
Isopropyl alcohol	BZB1076-BLK1	ND	ppbv	0.50	0.19	
Methyl t-butyl ether	BZB1076-BLK1	ND	ppbv	0.50	0.070	
Naphthalene	BZB1076-BLK1	ND	ppbv	5.0	2.1	
Toluene	BZB1076-BLK1	ND	ppbv	0.50	0.084	
p- & m-Xylenes	BZB1076-BLK1	ND	ppbv	0.50	0.14	
p-Xylene	BZB1076-BLK1	ND	ppbv	0.50	0.057	
Total Xylenes	BZB1076-BLK1	ND	ppbv	1.0	0.20	
TPH - Gasoline	BZB1076-BLK1	ND	ppbv	50	5.0	
4-Bromofluorobenzene (Surrogate)	BZB1076-BLK1	61.4	%	70 - 130 (LCL - UCL)		

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Volatile Organic Compounds by GC/MS (EPA Method TO-15)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BZB1076										
Benzene	BZB1076-BS1	LCS	5.3770	5.0000	ppbv	108		70 - 130		
	BZB1076-BSD1	LCSD	5.5250	5.0000	ppbv	110	2.7	70 - 130	30	
Ethylbenzene	BZB1076-BS1	LCS	5.6800	5.0000	ppbv	114		70 - 130		
	BZB1076-BSD1	LCSD	5.6880	5.0000	ppbv	114	0.1	70 - 130	30	
Toluene	BZB1076-BS1	LCS	6.0500	5.0000	ppbv	121		70 - 130		
	BZB1076-BSD1	LCSD	6.2340	5.0000	ppbv	125	3.0	70 - 130	30	
p- & m-Xylenes	BZB1076-BS1	LCS	12.048	10.000	ppbv	120		70 - 130		
	BZB1076-BSD1	LCSD	12.023	10.000	ppbv	120	0.2	70 - 130	30	
o-Xylene	BZB1076-BS1	LCS	5.9440	5.0000	ppbv	119		70 - 130		
	BZB1076-BSD1	LCSD	5.9300	5.0000	ppbv	119	0.2	70 - 130	30	
Total Xylenes	BZB1076-BS1	LCS	17.992	15.000	ppbv	120		70 - 130		
	BZB1076-BSD1	LCSD	17.953	15.000	ppbv	120	0.2	70 - 130	30	
4-Bromofluorobenzene (Surrogate)	BZB1076-BS1	LCS	9.68	10.0	ppbv	96.8		70 - 130		
	BZB1076-BSD1	LCSD	9.50	10.0	ppbv	95.0	1.9	70 - 130		

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

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZB0903						
Carbon dioxide (CO2)	BZB0903-BLK1	ND	% by Vol.	0.10	0.060	
Methane (CH4)	BZB0903-BLK1	ND	% by Vol.	0.00020	0.00020	
Oxygen (O2)	BZB0903-BLK1	ND	% by Vol.	0.020	0.016	

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Stratus Environmental, Inc.
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Cameron Park, CA 95682

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BZB0903										
Carbon dioxide (CO2)	BZB0903-BS1	LCS	6.2830	6.0000	% by Vol.	105		70 - 130		
	BZB0903-BSD1	LCSD	6.3170	6.0000	% by Vol.	105	0.5	70 - 130		30
Methane (CH4)	BZB0903-BS1	LCS	1.9950	1.8000	% by Vol.	111		70 - 130		
	BZB0903-BSD1	LCSD	2.0080	1.8000	% by Vol.	112	0.6	70 - 130		30
Oxygen (O2)	BZB0903-BS1	LCS	1.6380	1.6000	% by Vol.	102		70 - 130		
	BZB0903-BSD1	LCSD	1.6490	1.6000	% by Vol.	103	0.7	70 - 130		30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Reported: 02/17/2016 15:00
Project: Olympic Gas-San Lorenzo
Project Number: Olympic-Jaber
Project Manager: Scott Bittinger

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.

APPENDIX F

**GEOTRACKER DATA UPLOAD CONFIRMATION
SHEETS**

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER ESI

UPLOADING A GEO_XY FILE

SUCCESS

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

<u>Submittal Type:</u>	GEO_XY
<u>Report Title:</u>	MW-7A & MW-8A
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	GEO_XY.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>	12/28/2015 8:52:06 AM
<u>Confirmation Number:</u>	6338938117

[VIEW GEO_XY SUBMITTAL DATA ON MAP](#)

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UPLOADING A GEO_Z FILE

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<u>Submittal Type:</u>	GEO_Z
<u>Report Title:</u>	MW-7A & MW-8A
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	GEO_Z.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>	12/28/2015 8:54:42 AM
<u>Confirmation Number:</u>	8444605231

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UPLOADING A GEO_MAP FILE

SUCCESS

Your GEO_MAP file has been successfully submitted!

<u>Submittal Type:</u>	GEO_MAP
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	GEO_MAP.pdf
<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>	12/28/2015 8:56:13 AM
<u>Confirmation Number:</u>	5880073308

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UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

<u>Submittal Type:</u>	GEO_BORE
<u>Facility Global ID:</u>	T0600102256
<u>Field Point:</u>	MW-7A
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	SKM_C364e16020209030.pdf
<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>	2/2/2016 9:01:26 AM
<u>Confirmation Number:</u>	6983961641

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UPLOADING A GEO_BORE FILE

SUCCESS

Your GEO_BORE file has been successfully submitted!

<u>Submittal Type:</u>	GEO_BORE
<u>Facility Global ID:</u>	T0600102256
<u>Field Point:</u>	MW-8A
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	SKM_C364e16020209031.pdf
<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>	2/2/2016 9:02:10 AM
<u>Confirmation Number:</u>	9611686408

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UPLOADING A EDF FILE

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	4th Quarter 2015 Groundwater Monitoring Results - MW-7A & MW-8A
<u>Report Type:</u>	Monitoring Report - Semi-Annually
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	15121807_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>	2/10/2016 3:39:55 PM
<u>Confirmation Number:</u>	2437830328

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	Analytical Results - 1-11-16 (MW-5A, MW-6A, MW-7A & MW-8A)
<u>Report Type:</u>	Other Report / Document
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	16011228_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>	2/12/2016 11:46:07 AM
<u>Confirmation Number:</u>	1637465059

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<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	Site Investigation and Updated Water Supply Well Survey Results Report
<u>Report Type:</u>	Site Investigation
<u>Facility Global ID:</u>	T0600102256
<u>Facility Name:</u>	OLYMPIC STATION
<u>File Name:</u>	EDD_BCLabs_1602961_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>	2/19/2016 7:07:07 AM
<u>Confirmation Number:</u>	6126167058

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